GenCore version 4.5

OM protein - protein search, using sw model

Run on: September 30, 2002, 16:06:12 ; Search time 13.06 Seconds
(without alignments)
591.002 Million cell updates/sec

Title: US-09-671-658A-2
Perfect score: 316
Sequence: 1 MRRASRDYGKYLRSSEEMGS.....LLDPDQDATYFGAFKVQDID 316

Scoring table: OLIGO
Gapop 60.0 , Gapext 60.0

Searched: 231628 seqs, 24425594 residues

Word size : 0

Total number of hits satisfying chosen parameters: 231628

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Listing first 75 summaries

Database : Issued_Patents_AA:*
1: /cgn2_6/ptodata/2/iaa/5A_COMB.pep:*
2: /cgn2_6/ptodata/2/iaa/5B_COMB.pep:*
3: /cgn2_6/ptodata/2/iaa/6A_COMB.pep:*
4: /cgn2_6/ptodata/2/iaa/6B_COMB.pep:*
5: /cgn2_6/ptodata/2/iaa/PCTUS_COMB.pep:*
6: /cgn2_6/ptodata/2/iaa/backfiles1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	316	100.0	316	2	US-08-842-842-7	Sequence 7, Appli
2	316	100.0	316	4	US-08-989-362-2	Sequence 2, Appli
3	316	100.0	316	4	US-09-052-521C-2	Sequence 2, Appli
4	217	68.7	294	3	US-08-996-139-11	Sequence 11, Appl
5	217	68.7	294	4	US-08-995-659-11	Sequence 11, Appl
6	217	68.7	294	4	US-09-215-649A-11	Sequence 11, Appl
7	27	8.5	28	4	US-09-052-521C-34	Sequence 34, Appl
8	22	7.0	27	4	US-09-052-521C-33	Sequence 33, Appl
9	22	7.0	317	3	US-08-996-139-13	Sequence 13, Appl
10	22	7.0	317	4	US-08-995-659-13	Sequence 13, Appl
11	22	7.0	317	4	US-09-215-649A-13	Sequence 13, Appl
12	22	7.0	317	4	US-09-052-521C-4	Sequence 4, Appli
13	17	5.4	17	4	US-09-052-521C-35	Sequence 35, Appl
14	8	2.5	459	2	US-08-870-518-2	Sequence 2, Appli
15	8	2.5	4472	2	US-08-804-227C-2	Sequence 2, Appli
16	7	2.2	21	2	US-08-997-080-4	Sequence 4, Appli
17	7	2.2	21	2	US-08-997-362-4	Sequence 4, Appli
18	7	2.2	21	3	US-08-873-970-4	Sequence 4, Appli
19	7	2.2	21	4	US-09-095-855-4	Sequence 4, Appli
20	7	2.2	21	4	US-08-705-347A-4	Sequence 4, Appli
21	7	2.2	21	4	US-09-324-542-4	Sequence 4, Appli
22	7	2.2	41	2	US-08-640-847C-3	Sequence 3, Appli
23	7	2.2	41	2	US-08-640-847C-9	Sequence 9, Appli
24	7	2.2	41	2	US-08-640-847C-12	Sequence 12, Appl
25	7	2.2	58	2	US-08-284-391B-35	Sequence 35, Appl
26	7	2.2	58	4	US-09-218-950-35	Sequence 35, Appl
27	7	2.2	93	1	US-08-591-498-10	Sequence 10, Appl
28	7	2.2	93	1	US-08-591-498-14	Sequence 14, Appl
29	7	2.2	117	3	US-08-702-609A-4	Sequence 4, Appli
30	7	2.2	117	3	US-08-702-609A-6	Sequence 6, Appli
31	7	2.2	190	3	US-08-799-149C-3	Sequence 3, Appli
32	7	2.2	207	4	US-09-199-637A-211	Sequence 211, App
33	7	2.2	223	4	US-09-171-461-11	Sequence 11, Appl
34	7	2.2	301	1	US-08-420-235B-47	Sequence 47, Appl
35	7	2.2	301	2	US-08-343-101A-22	Sequence 22, Appl
36	7	2.2	301	3	US-09-183-688-22	Sequence 22, Appl
37	7	2.2	301	4	US-08-793-624-47	Sequence 47, Appl
38	7	2.2	337	2	US-08-861-464-12	Sequence 12, Appl
39	7	2.2	337	2	US-08-396-001-12	Sequence 12, Appl
40	7	2.2	337	4	US-09-323-433A-12	Sequence 12, Appl
41	7	2.2	370	4	US-09-142-551A-4	Sequence 4, Appli
42	7	2.2	375	3	US-08-872-979-3	Sequence 3, Appli
43	7	2.2	396	4	US-09-142-551A-3	Sequence 3, Appli
44	7	2.2	422	2	US-08-485-938A-34	Sequence 34, Appl
45	7	2.2	468	2	US-08-390-000A-7	Sequence 7, Appli
46	7	2.2	472	1	US-08-194-338-6	Sequence 6, Appli
47	7	2.2	477	1	US-08-444-734A-4	Sequence 4, Appli
48	7	2.2	477	1	US-08-087-772A-16	Sequence 16, Appl
49	7	2.2	660	3	US-09-111-085-2	Sequence 2, Appli
50	7	2.2	660	4	US-09-376-781-5	Sequence 5, Appli
51	7	2.2	712	1	US-08-587-889-2	Sequence 2, Appli
52	7	2.2	712	2	US-08-980-060-5	Sequence 5, Appli
53	7	2.2	712	4	US-09-307-185-5	Sequence 5, Appli
54	7	2.2	712	5	PCT-US96-09193-2	Sequence 2, Appli
55	7	2.2	719	4	US-08-765-907A-15	Sequence 15, Appl
56	7	2.2	956	1	US-08-185-232A-2	Sequence 2, Appli
57	7	2.2	956	1	US-08-416-523-2	Sequence 2, Appli
58	7	2.2	956	3	US-08-789-478-2	Sequence 2, Appli
59	7	2.2	1001	1	US-07-797-556-6	Sequence 6, Appli
60	7	2.2	1001	1	US-07-943-843-2	Sequence 2, Appli
61	7	2.2	1001	1	US-08-347-003-2	Sequence 2, Appli
62	7	2.2	1070	3	US-08-922-635-22	Sequence 22, Appl
63	7	2.2	1097	1	US-07-943-843-6	Sequence 6, Appli
64	7	2.2	1097	1	US-08-347-003-6	Sequence 6, Appli
65	7	2.2	1572	2	US-08-290-731C-5	Sequence 5, Appli
66	6	1.9	6	4	US-08-748-073-2	Sequence 2, Appli
67	6	1.9	10	4	US-09-001-984C-78	Sequence 78, Appl
68	6	1.9	12	1	US-08-460-874A-46	Sequence 46, Appl
69	6	1.9	12	2	US-08-388-883B-46	Sequence 46, Appl
70	6	1.9	12	4	US-08-462-211A-46	Sequence 46, Appl
71	6	1.9	12	4	US-09-258-754-74	Sequence 74, Appl
72	6	1.9	12	4	US-09-042-107-74	Sequence 74, Appl
73	6	1.9	12	4	US-08-957-130-10	Sequence 10, Appl
74	6	1.9	15	3	US-08-630-916A-94	Sequence 94, Appl
75	6	1.9	15	4	US-08-602-999A-307	Sequence 307, App

ALIGNMENTS

RESULT 1
US-08-842-842-7
; Sequence 7, Application US/08842842
; Patent No. 5843678
; GENERAL INFORMATION:
; APPLICANT: Boyle, William J.
; TITLE OF INVENTION: OSTEOPROTEGERIN BINDING PROTEINS
; NUMBER OF SEQUENCES: 7
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Amgen Inc.
; STREET: 1840 Dehavilland Drive
; CITY: Thousand Oaks
; STATE: California
; COUNTRY: USA
; ZIP: 91230-1789
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30

```
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/842,842
;      FILING DATE:
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Winter, Robert B.
;      REFERENCE/DOCKET NUMBER:  A-451
;  INFORMATION FOR SEQ ID NO:  7:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  316 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-842-842-7

  Query Match           100.0%;  Score 316;  DB 2;  Length 316;
  Best Local Similarity  100.0%;  Pred. No. 0;
  Matches  316;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy       1 MRRASRDYGKYLRSSEEMGSGPGVPHEGPLHPAPSAPAPAPPPAASRSMFLALLGLGLGQ 60
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1 MRRASRDYGKYLRSSEEMGSGPGVPHEGPLHPAPSAPAPAPPPAASRSMFLALLGLGLGQ 60

Qy      61 VVCSIALFLYFRAQMDPNRISEDSTHCFYRILRLHENAGLQDSTLESEDTLPDSCRRMKQ 120
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      61 VVCSIALFLYFRAQMDPNRISEDSTHCFYRILRLHENAGLQDSTLESEDTLPDSCRRMKQ 120

Qy     121 AFQGAVQKELQHIVGPQRFSGAPAMMEGSWLDVAQRGKPEAQPFAHLTINAASIPSGSHK 180
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     121 AFQGAVQKELQHIVGPQRFSGAPAMMEGSWLDVAQRGKPEAQPFAHLTINAASIPSGSHK 180

Qy     181 VTLSSWYHDRGWAKISNMTLSNGKLRVNQDGFYYLYANICFRHHETSGSVPTDYLQLMVY 240
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     181 VTLSSWYHDRGWAKISNMTLSNGKLRVNQDGFYYLYANICFRHHETSGSVPTDYLQLMVY 240

Qy     241 VVKTSIKIPSSHNLMKGGSTKNWSGNSEFHFYSINVGGFFKLRAGEEISIQVSNPSLLDP 300
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     241 VVKTSIKIPSSHNLMKGGSTKNWSGNSEFHFYSINVGGFFKLRAGEEISIQVSNPSLLDP 300

Qy     301 DQDATYFGAFKVQDID 316
          ||||||||||||||||
Db     301 DQDATYFGAFKVQDID 316


RESULT   2
US-08-989-362-2
; Sequence 2, Application US/08989362
; Patent No. 6242586
; GENERAL INFORMATION:
;    APPLICANT:  Gorman, Daniel M.
;    APPLICANT:  Mattson, Jeanine D.
;    TITLE OF INVENTION:  Mammalian Cell Surface Antigens; Related
;    TITLE OF INVENTION:  Reagents
;    NUMBER OF SEQUENCES:  2
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  DNAX Research Institute
;      STREET:  901 California Avenue
;      CITY:  Palo Alto
;      STATE:  California
;      COUNTRY:  USA
;      ZIP:  94304-1104
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/989,362
;      FILING DATE:  12-DEC-1997
;      CLASSIFICATION:  56
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 60/032,846
;      FILING DATE:  13-DEC-1996
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Ching, Edwin P.
;      REGISTRATION NUMBER:  34,090
;      REFERENCE/DOCKET NUMBER:  DX0686
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (650)852-9196
;      TELEFAX:  (650)496-1204
;  INFORMATION FOR SEQ ID NO:  2:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  316 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-989-362-2

  Query Match           100.0%;  Score 316;  DB 4;  Length 316;
  Best Local Similarity  100.0%;  Pred. No. 0;
  Matches  316;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy       1 MRRASRDYGKYLRSSEEMGSGPGVPHEGPLHPAPSAPAPAPPPAASRSMFLALLGLGLGQ 60
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1 MRRASRDYGKYLRSSEEMGSGPGVPHEGPLHPAPSAPAPAPPPAASRSMFLALLGLGLGQ 60

Qy      61 VVCSIALFLYFRAQMDPNRISEDSTHCFYRILRLHENAGLQDSTLESEDTLPDSCRRMKQ 120
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      61 VVCSIALFLYFRAQMDPNRISEDSTHCFYRILRLHENAGLQDSTLESEDTLPDSCRRMKQ 120

Qy     121 AFQGAVQKELQHIVGPQRFSGAPAMMEGSWLDVAQRGKPEAQPFAHLTINAASIPSGSHK 180
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     121 AFQGAVQKELQHIVGPQRFSGAPAMMEGSWLDVAQRGKPEAQPFAHLTINAASIPSGSHK 180

Qy     181 VTLSSWYHDRGWAKISNMTLSNGKLRVNQDGFYYLYANICFRHHETSGSVPTDYLQLMVY 240
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     181 VTLSSWYHDRGWAKISNMTLSNGKLRVNQDGFYYLYANICFRHHETSGSVPTDYLQLMVY 240

Qy     241 VVKTSIKIPSSHNLMKGGSTKNWSGNSEFHFYSINVGGFFKLRAGEEISIQVSNPSLLDP 300
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     241 VVKTSIKIPSSHNLMKGGSTKNWSGNSEFHFYSINVGGFFKLRAGEEISIQVSNPSLLDP 300

Qy     301 DQDATYFGAFKVQDID 316
          ||||||||||||||||
Db     301 DQDATYFGAFKVQDID 316


RESULT   3
US-09-052-521C-2
; Sequence 2, Application US/09052521C
; Patent No. 6316408
; GENERAL INFORMATION:
;  APPLICANT:  Boyle, William J.
;  TITLE OF INVENTION:  Osteoprotegerin Binding Proteins and Receptors
;  FILE REFERENCE:  A-451Brv
;  CURRENT APPLICATION NUMBER: US/09/052,521C
;  CURRENT FILING DATE:  1998-03-30
;  PRIOR APPLICATION NUMBER:  08/880,855
;  PRIOR FILING DATE:  1997-06-23
;  PRIOR APPLICATION NUMBER:  08/842,842
;  PRIOR FILING DATE:  1997-04-16
;  NUMBER OF SEQ ID NOS:  40
;  SOFTWARE:  PatentIn Ver. 2.1
; SEQ ID NO 2
;   LENGTH: 316
;   TYPE: PRT
;   ORGANISM: Mouse
US-09-052-521C-2

  Query Match           100.0%;  Score 316;  DB 4;  Length 316;
  Best Local Similarity  100.0%;  Pred. No. 0;
  Matches  316;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;
```

```
Qy       1 MRRASRDYGKYLRSSEEMGSGPGVPHEGPLHPAPSAPAPAPPPAASRSMFLALLGLGLGQ 60
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1 MRRASRDYGKYLRSSEEMGSGPGVPHEGPLHPAPSAPAPAPPPAASRSMFLALLGLGLGQ 60

Qy      61 VVCSIALFLYFRAQMDPNRISEDSTHCFYRILRLHENAGLQDSTLESEDTLPDSCRRMKQ 120
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      61 VVCSIALFLYFRAQMDPNRISEDSTHCFYRILRLHENAGLQDSTLESEDTLPDSCRRMKQ 120

Qy     121 AFQGAVQKELQHIVGPQRFSGAPAMMEGSWLDVAQRGKPEAQPFAHLTINAASIPSGSHK 180
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     121 AFQGAVQKELQHIVGPQRFSGAPAMMEGSWLDVAQRGKPEAQPFAHLTINAASIPSGSHK 180

Qy     181 VTLSSWYHDRGWAKISNMTLSNGKLRVNQDGFYYLYANICFRHHETSGSVPTDYLQLMVY 240
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     181 VTLSSWYHDRGWAKISNMTLSNGKLRVNQDGFYYLYANICFRHHETSGSVPTDYLQLMVY 240

Qy     241 VVKTSIKIPSSHNLMKGGSTKNWSGNSEFHFYSINVGGFFKLRAGEEISIQVSNPSLLDP 300
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     241 VVKTSIKIPSSHNLMKGGSTKNWSGNSEFHFYSINVGGFFKLRAGEEISIQVSNPSLLDP 300

Qy     301 DQDATYFGAFKVQDID 316
           ||||||||||||||||
Db     301 DQDATYFGAFKVQDID 316
```

RESULT 4
US-08-996-139-11
; Sequence 11, Application US/08996139
; Patent No. 6017729
; GENERAL INFORMATION:
; APPLICANT: Anderson, Dirk M.
; APPLICANT: Galibert, Laurent
; APPLICANT: Maraskovsky, Eugene
; TITLE OF INVENTION: Receptor Activator of NF-kappaB
; NUMBER OF SEQUENCES: 19
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunex Corporation, Law Department
; STREET: 51 University Street
; CITY: Seattle
; STATE: WA
; COUNTRY: USA
; ZIP: 98101
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: Apple Power Macintosh
; OPERATING SYSTEM: Apple Operating System 7.5.5
; SOFTWARE: Microsoft Word for Power Macintosh 6.0.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/996,139
; FILING DATE: 22 DECEMBER 1997
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: USSN 60/064,671
; FILING DATE: 14 OCTOBER 1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: USSN 08/813,509
; FILING DATE: 07 MARCH 1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: USSN 08/772,330
; FILING DATE: 23 DECEMBER 1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Perkins, Patricia Anne
; REGISTRATION NUMBER: 34,693
; REFERENCE/DOCKET NUMBER: 2851-A
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206)587-0430
; TELEFAX: (206)233-0644
; INFORMATION FOR SEQ ID NO: 11:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 294 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein

US-08-996-139-11

```
  Query Match             68.7%;  Score 217;  DB 3;  Length 294;
  Best Local Similarity   100.0%;  Pred. No. 6.7e-210;
  Matches  217;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy     100 LQDSTLESEDTLPDSCRRMKQAFQGAVQKELQHIVGPQRFSGAPAMMEGSWLDVAQRGKP 159
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      78 LQDSTLESEDTLPDSCRRMKQAFQGAVQKELQHIVGPQRFSGAPAMMEGSWLDVAQRGKP 137

Qy     160 EAQPFAHLTINAASIPSGSHKVTLSSWYHDRGWAKISNMTLSNGKLRVNQDGFYYLYANI 219
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     138 EAQPFAHLTINAASIPSGSHKVTLSSWYHDRGWAKISNMTLSNGKLRVNQDGFYYLYANI 197

Qy     220 CFRHHETSGSVPTDYLQLMVYVVKTSIKIPSSHNLMKGGSTKNWSGNSEFHFYSINVGGF 279
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     198 CFRHHETSGSVPTDYLQLMVYVVKTSIKIPSSHNLMKGGSTKNWSGNSEFHFYSINVGGF 257

Qy     280 FKLRAGEEISIQVSNPSLLDPDQDATYFGAFKVQDID 316
           |||||||||||||||||||||||||||||||||||||
Db     258 FKLRAGEEISIQVSNPSLLDPDQDATYFGAFKVQDID 294
```

RESULT 5
US-08-995-659-11
; Sequence 11, Application US/08995659
; Patent No. 6242213
; GENERAL INFORMATION:
; APPLICANT: Anderson, Dirk M.
; APPLICANT: Galibert, Laurent
; APPLICANT: Maraskovsky, Eugene
; TITLE OF INVENTION: Ligand for Receptor Activator of NF-kappaB
; NUMBER OF SEQUENCES: 19
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunex Corporation, Law Department
; STREET: 51 University Street
; CITY: Seattle
; STATE: WA
; COUNTRY: USA
; ZIP: 98101
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: Apple Power Macintosh
; OPERATING SYSTEM: Apple Operating System 7.5.5
; SOFTWARE: Microsoft Word for Power Macintosh 6.0.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/995,659
; FILING DATE: 22 DECEMBER 1997
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: USSN 60/064,671
; FILING DATE: 14 OCTOBER 1997
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: USSN 08/813,509
; FILING DATE: 07 MARCH 1997
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: USSN 08/772,330
; FILING DATE: 23 DECEMBER 1996
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Perkins, Patricia Anne
; REGISTRATION NUMBER: 34,693
; REFERENCE/DOCKET NUMBER: 2852-A
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206)587-0430
; TELEFAX: (206)233-0644
; INFORMATION FOR SEQ ID NO: 11:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 294 amino acids
; TYPE: amino acid

```
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-995-659-11


  Query Match             68.7%;  Score 217;  DB 4;  Length 294;
  Best Local Similarity   100.0%;  Pred. No. 6.7e-210;
  Matches  217;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy     100 LQDSTLESEDTLPDSCRRMKQAFQGAVQKELQHIVGPQRFSGAPAMMEGSWLDVAQRGKP 159
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      78 LQDSTLESEDTLPDSCRRMKQAFQGAVQKELQHIVGPQRFSGAPAMMEGSWLDVAQRGKP 137

Qy     160 EAQPFAHLTINAASIPSGSHKVTLSSWYHDRGWAKISNMTLSNGKLRVNQDGFYYLYANI 219
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     138 EAQPFAHLTINAASIPSGSHKVTLSSWYHDRGWAKISNMTLSNGKLRVNQDGFYYLYANI 197

Qy     220 CFRHHETSGSVPTDYLQLMVYVVKTSIKIPSSHNLMKGGSTKNWSGNSEFHFYSINVGGF 279
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     198 CFRHHETSGSVPTDYLQLMVYVVKTSIKIPSSHNLMKGGSTKNWSGNSEFHFYSINVGGF 257

Qy     280 FKLRAGEEISIQVSNPSLLDPDQDATYFGAFKVQDID 316
           |||||||||||||||||||||||||||||||||||||
Db     258 FKLRAGEEISIQVSNPSLLDPDQDATYFGAFKVQDID 294


RESULT   6
US-09-215-649A-11
; Sequence 11, Application US/09215649A
; Patent No. 6271349
;   GENERAL INFORMATION:
;        APPLICANT: Anderson, Dirk M.
;                   Galibert, Laurent
;                   Maraskovsky, Eugene
;        TITLE OF INVENTION: Receptor Activator of NF-kappaB
;        NUMBER OF SEQUENCES: 19
;        CORRESPONDENCE ADDRESS:
;             ADDRESSEE: Immunex Corporation, Law Department
;             STREET: 51 University Street
;             CITY: Seattle
;             STATE: WA
;             COUNTRY: USA
;             ZIP: 98101
;        COMPUTER READABLE FORM:
;             MEDIUM TYPE: Floppy disk
;             COMPUTER: Apple Power Macintosh
;             OPERATING SYSTEM: Apple Operating System 7.5.5
;             SOFTWARE: Microsoft Word for Power Macintosh 6.0.1
;        CURRENT APPLICATION DATA:
;             APPLICATION NUMBER: US/09/215,649A
;             FILING DATE: 17-Dec-1998
;             CLASSIFICATION: <Unknown>
;        PRIOR APPLICATION DATA:
;             APPLICATION NUMBER: 08/996,139
;             FILING DATE: <Unknown>
;             APPLICATION NUMBER: USSN 08/813,509
;             FILING DATE: 07 MARCH 1997
;             APPLICATION NUMBER: USSN 08/772,330
;             FILING DATE: 23 DECEMBER 1996
;        ATTORNEY/AGENT INFORMATION:
;             NAME: Perkins, Patricia Anne
;             REGISTRATION NUMBER: 34,693
;             REFERENCE/DOCKET NUMBER: 2851-A
;        TELECOMMUNICATION INFORMATION:
;             TELEPHONE: (206)587-0430
;             TELEFAX: (206)233-0644
;   INFORMATION FOR SEQ ID NO: 11:
;        SEQUENCE CHARACTERISTICS:
;             LENGTH: 294 amino acids
;             TYPE: amino acid
;             TOPOLOGY: linear
;        MOLECULE TYPE: protein
;        SEQUENCE DESCRIPTION: SEQ ID NO: 11:
US-09-215-649A-11


  Query Match             68.7%;  Score 217;  DB 4;  Length 294;
  Best Local Similarity   100.0%;  Pred. No. 6.7e-210;
  Matches  217;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy     100 LQDSTLESEDTLPDSCRRMKQAFQGAVQKELQHIVGPQRFSGAPAMMEGSWLDVAQRGKP 159
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      78 LQDSTLESEDTLPDSCRRMKQAFQGAVQKELQHIVGPQRFSGAPAMMEGSWLDVAQRGKP 137

Qy     160 EAQPFAHLTINAASIPSGSHKVTLSSWYHDRGWAKISNMTLSNGKLRVNQDGFYYLYANI 219
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     138 EAQPFAHLTINAASIPSGSHKVTLSSWYHDRGWAKISNMTLSNGKLRVNQDGFYYLYANI 197

Qy     220 CFRHHETSGSVPTDYLQLMVYVVKTSIKIPSSHNLMKGGSTKNWSGNSEFHFYSINVGGF 279
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     198 CFRHHETSGSVPTDYLQLMVYVVKTSIKIPSSHNLMKGGSTKNWSGNSEFHFYSINVGGF 257

Qy     280 FKLRAGEEISIQVSNPSLLDPDQDATYFGAFKVQDID 316
           |||||||||||||||||||||||||||||||||||||
Db     258 FKLRAGEEISIQVSNPSLLDPDQDATYFGAFKVQDID 294


RESULT   7
US-09-052-521C-34
; Sequence 34, Application US/09052521C
; Patent No. 6316408
; GENERAL INFORMATION:
;  APPLICANT:  Boyle, William J.
;  TITLE OF INVENTION:  Osteoprotegerin Binding Proteins and Receptors
;  FILE REFERENCE:  A-451Brv
;  CURRENT APPLICATION NUMBER: US/09/052,521C
;  CURRENT FILING DATE:  1998-03-30
;  PRIOR APPLICATION NUMBER:  08/880,855
;  PRIOR FILING DATE:  1997-06-23
;  PRIOR APPLICATION NUMBER:  08/842,842
;  PRIOR FILING DATE:  1997-04-16
;  NUMBER OF SEQ ID NOS:  40
;  SOFTWARE:  PatentIn Ver. 2.1
; SEQ ID NO 34
;   LENGTH: 28
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence: Synthetic
;   OTHER INFORMATION: Oligonucleotide
US-09-052-521C-34


  Query Match              8.5%;  Score 27;  DB 4;  Length 28;
  Best Local Similarity   100.0%;  Pred. No. 4.1e-20;
  Matches   27;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy     170 NAASIPSGSHKVTLSSWYHDRGWAKIS 196
           ||||||||||||||||||||||||||||
Db       1 NAASIPSGSHKVTLSSWYHDRGWAKIS 27


RESULT   8
US-09-052-521C-33
; Sequence 33, Application US/09052521C
; Patent No. 6316408
; GENERAL INFORMATION:
;  APPLICANT:  Boyle, William J.
;  TITLE OF INVENTION:  Osteoprotegerin Binding Proteins and Receptors
;  FILE REFERENCE:  A-451Brv
;  CURRENT APPLICATION NUMBER: US/09/052,521C
;  CURRENT FILING DATE:  1998-03-30
;  PRIOR APPLICATION NUMBER:  08/880,855
;  PRIOR FILING DATE:  1997-06-23
;  PRIOR APPLICATION NUMBER:  08/842,842
;  PRIOR FILING DATE:  1997-04-16
```

```
;  NUMBER OF SEQ ID NOS:  40
;  SOFTWARE:  PatentIn Ver. 2.1
; SEQ ID NO 33
;   LENGTH: 27
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence: Synthetic
;   OTHER INFORMATION: Peptide
US-09-052-521C-33


  Query Match             7.0%;  Score 22;  DB 4;  Length 27;
  Best Local Similarity   100.0%;  Pred. No. 4.1e-15;
  Matches   22;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy     170 NAASIPSGSHKVTLSSWYHDRG 191
           ||||||||||||||||||||||
Db       1 NAASIPSGSHKVTLSSWYHDRG 22


RE[redacted]  9
US[redacted]996-139-13
; Sequence 13, Application US/08996139
; Patent No. 6017729
;  GENERAL INFORMATION:
;    APPLICANT:  Anderson, Dirk M.
;    APPLICANT:  Galibert, Laurent
;    APPLICANT:  Maraskovsky, Eugene
;    TITLE OF INVENTION:  Receptor Activator of NF-kappaB
;    NUMBER OF SEQUENCES:  19
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Immunex Corporation, Law Department
;      STREET:  51 University Street
;      CITY:  Seattle
;      STATE:  WA
;      COUNTRY:  USA
;      ZIP:  98101
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  Apple Power Macintosh
;      OPERATING SYSTEM:  Apple Operating System 7.5.5
;      SOFTWARE:  Microsoft Word for Power Macintosh 6.0.1
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/996,139
;      FILING DATE:  22 DECEMBER 1997
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  USSN 60/064,671
;      FILING DATE:  14 OCTOBER 1997
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  USSN 08/813,509
;      FILING DATE:  07 MARCH 1997
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  USSN 08/772,330
;      FILING DATE:  23 DECEMBER 1996
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Perkins, Patricia Anne
;      REGISTRATION NUMBER:  34,693
;      REFERENCE/DOCKET NUMBER:  2851-A
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (206)587-0430
;      TELEFAX:  (206)233-0644
;  INFORMATION FOR SEQ ID NO:  13:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  317 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-996-139-13


  Query Match             7.0%;  Score 22;  DB 3;  Length 317;
  Best Local Similarity   100.0%;  Pred. No. 4.3e-14;
  Matches   22;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy     207 VNQDGFYYLYANICFRHHETSG 228
           ||||||||||||||||||||||
Db     208 VNQDGFYYLYANICFRHHETSG 229


RESULT  10
US-08-995-659-13
; Sequence 13, Application US/08995659
; Patent No. 6242213
;  GENERAL INFORMATION:
;    APPLICANT:  Anderson, Dirk M.
;    APPLICANT:  Galibert, Laurent
;    APPLICANT:  Maraskovsky, Eugene
;    TITLE OF INVENTION:  Ligand for Receptor Activator of NF-kappaB
;    NUMBER OF SEQUENCES:  19
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Immunex Corporation, Law Department
;      STREET:  51 University Street
;      CITY:  Seattle
;      STATE:  WA
;      COUNTRY:  USA
;      ZIP:  98101
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  Apple Power Macintosh
;      OPERATING SYSTEM:  Apple Operating System 7.5.5
;      SOFTWARE:  Microsoft Word for Power Macintosh 6.0.1
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/995,659
;      FILING DATE:  22 DECEMBER 1997
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  USSN 60/064,671
;      FILING DATE:  14 OCTOBER 1997
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  USSN 08/813,509
;      FILING DATE:  07 MARCH 1997
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  USSN 08/772,330
;      FILING DATE:  23 DECEMBER 1996
;      CLASSIFICATION:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Perkins, Patricia Anne
;      REGISTRATION NUMBER:  34,693
;      REFERENCE/DOCKET NUMBER:  2852-A
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (206)587-0430
;      TELEFAX:  (206)233-0644
;  INFORMATION FOR SEQ ID NO:  13:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  317 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-995-659-13


  Query Match             7.0%;  Score 22;  DB 4;  Length 317;
  Best Local Similarity   100.0%;  Pred. No. 4.3e-14;
  Matches   22;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy     207 VNQDGFYYLYANICFRHHETSG 228
           ||||||||||||||||||||||
Db     208 VNQDGFYYLYANICFRHHETSG 229


RESULT  11
US-09-215-649A-13
```

```
; Sequence 13, Application US/09215649A
; Patent No. 6271349
;  GENERAL INFORMATION:
;       APPLICANT: Anderson, Dirk M.
;                  Galibert, Laurent
;                  Maraskovsky, Eugene
;       TITLE OF INVENTION: Receptor Activator of NF-kappaB
;       NUMBER OF SEQUENCES: 19
;       CORRESPONDENCE ADDRESS:
;            ADDRESSEE: Immunex Corporation, Law Department
;            STREET: 51 University Street
;            CITY: Seattle
;            STATE: WA
;            COUNTRY: USA
;            ZIP: 98101
;       COMPUTER READABLE FORM:
;            MEDIUM TYPE: Floppy disk
;            COMPUTER: Apple Power Macintosh
;            OPERATING SYSTEM: Apple Operating System 7.5.5
;            SOFTWARE: Microsoft Word for Power Macintosh 6.0.1
;       CURRENT APPLICATION DATA:
;            APPLICATION NUMBER: US/09/215,649A
;            FILING DATE: 17-Dec-1998
;            CLASSIFICATION: <Unknown>
;       PRIOR APPLICATION DATA:
;            APPLICATION NUMBER: 08/996,139
;            FILING DATE: <Unknown>
;            APPLICATION NUMBER: USSN 08/813,509
;            FILING DATE: 07 MARCH 1997
;            APPLICATION NUMBER: USSN 08/772,330
;            FILING DATE: 23 DECEMBER 1996
;       ATTORNEY/AGENT INFORMATION:
;            NAME: Perkins, Patricia Anne
;            REGISTRATION NUMBER: 34,693
;            REFERENCE/DOCKET NUMBER: 2851-A
;       TELECOMMUNICATION INFORMATION:
;            TELEPHONE: (206)587-0430
;            TELEFAX: (206)233-0644
;  INFORMATION FOR SEQ ID NO: 13:
;       SEQUENCE CHARACTERISTICS:
;            LENGTH: 317 amino acids
;            TYPE: amino acid
;            TOPOLOGY: linear
;       MOLECULE TYPE: protein
;       SEQUENCE DESCRIPTION: SEQ ID NO: 13:
US-09-215-649A-13


  Query Match             7.0%;  Score 22;  DB 4;  Length 317;
  Best Local Similarity   100.0%;  Pred. No. 4.3e-14;
  Matches   22;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy     207 VNQDGFYYLYANICFRHHETSG 228
           ||||||||||||||||||||||
Db     208 VNQDGFYYLYANICFRHHETSG 229


RESULT  12
US-09-052-521C-4
; Sequence 4, Application US/09052521C
; Patent No. 6316408
; GENERAL INFORMATION:
;  APPLICANT:  Boyle, William J.
;  TITLE OF INVENTION:  Osteoprotegerin Binding Proteins and Receptors
;  FILE REFERENCE:  A-451Brv
;  CURRENT APPLICATION NUMBER: US/09/052,521C
;  CURRENT FILING DATE:  1998-03-30
;  PRIOR APPLICATION NUMBER:  08/880,855
;  PRIOR FILING DATE:  1997-06-23
;  PRIOR APPLICATION NUMBER:  08/842,842
;  PRIOR FILING DATE:  1997-04-16
;  NUMBER OF SEQ ID NOS:  40
;  SOFTWARE:  PatentIn Ver. 2.1
; SEQ ID NO 4
;   LENGTH: 317
;   TYPE: PRT
;   ORGANISM: Human
US-09-052-521C-4


  Query Match             7.0%;  Score 22;  DB 4;  Length 317;
  Best Local Similarity   100.0%;  Pred. No. 4.3e-14;
  Matches   22;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy     207 VNQDGFYYLYANICFRHHETSG 228
           ||||||||||||||||||||||
Db     208 VNQDGFYYLYANICFRHHETSG 229


RESULT  13
US-09-052-521C-35
; Sequence 35, Application US/09052521C
; Patent No. 6316408
; GENERAL INFORMATION:
;  APPLICANT:  Boyle, William J.
;  TITLE OF INVENTION:  Osteoprotegerin Binding Proteins and Receptors
;  FILE REFERENCE:  A-451Brv
;  CURRENT APPLICATION NUMBER: US/09/052,521C
;  CURRENT FILING DATE:  1998-03-30
;  PRIOR APPLICATION NUMBER:  08/880,855
;  PRIOR FILING DATE:  1997-06-23
;  PRIOR APPLICATION NUMBER:  08/842,842
;  PRIOR FILING DATE:  1997-04-16
;  NUMBER OF SEQ ID NOS:  40
;  SOFTWARE:  PatentIn Ver. 2.1
; SEQ ID NO 35
;   LENGTH: 17
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence: Synthetic
;   OTHER INFORMATION: Peptide
US-09-052-521C-35


  Query Match             5.4%;  Score 17;  DB 4;  Length 17;
  Best Local Similarity   100.0%;  Pred. No. 2.8e-10;
  Matches   17;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy     239 VYVVKTSIKIPSSHNLM 255
           |||||||||||||||||
Db       1 VYVVKTSIKIPSSHNLM 17


RESULT  14
US-08-870-518-2
; Sequence 2, Application US/08870518
; Patent No. 5925566
;  GENERAL INFORMATION:
;    APPLICANT:  Davis, Roger J.
;    APPLICANT:  Galcheva-Gargova, Zoya
;    TITLE OF INVENTION:  NON-ACTIVATED RECEPTOR COMPLEX
;    TITLE OF INVENTION:  PROTEINS AND USES THEREOF
;    NUMBER OF SEQUENCES:  35
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Fish & Richardson P.C.
;      STREET:  225 Franklin Street
;      CITY:  Boston
;      STATE:  MA
;      COUNTRY:  US
;      ZIP:  02110-2804
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette
;      COMPUTER:  IBM Compatible
;      OPERATING SYSTEM:  Windows95
;      SOFTWARE:  FastSEQ for Windows Version 2.0
```

; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/870,518
; FILING DATE: 06-JUN-1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/019,219
; FILING DATE: 06-JUN-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Fasse, Peter J.
; REGISTRATION NUMBER: 32,983
; REFERENCE/DOCKET NUMBER: 04020/102001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617/542-5070
; TELEFAX: 617/542-8906
; TELEX: 200154
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 459 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-[redacted]870-518-2

Query Match 2.5%; Score 8; DB 2; Length 459;
Best Local Similarity 100.0%; Pred. No. 7;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 37 PAPAPPPA 44
||||||||
Db 20 PAPAPPPA 27

RESULT 15
US-08-804-227C-2
; Sequence 2, Application US/08804227C
; Patent No. 5876991
; GENERAL INFORMATION:
; APPLICANT: DeHoff, Bradley S.
; APPLICANT: Kuhstoss, Stuart A.
; APPLICANT: Rosteck, Paul R., Jr.
; APPLICANT: Sutton, Kimberly L.
; TITLE OF INVENTION: POLYKETIDE SYNTHASE GENES
; NUMBER OF SEQUENCES: 15
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: THOMAS G. PLANT 1501
; STREET: LILLY CORPORATE CENTER
; CITY: INDIANAPOLIS
; STATE: IN
; COUNTRY: USA
; [redacted]ZIP: 46285
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: MS-DOS
; SOFTWARE: ASCI(DOS) Text only
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/804,227C
; FILING DATE: February 21, 1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Plant, Thomas, G.
; REGISTRATION NUMBER: 35,784
; REFERENCE/DOCKET NUMBER: X-8231
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 317-276-2459
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 4472 amino acids
; TYPE: amino acid
; TOPOLOGY: unknown
; MOLECULE TYPE: protein
US-08-804-227C-2

Query Match 2.5%; Score 8; DB 2; Length 4472;
Best Local Similarity 100.0%; Pred. No. 62;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 34 PSAPAPAP 41
||||||||
Db 4442 PSAPAPAP 4449

RESULT 16
US-08-997-080-4
; Sequence 4, Application US/08997080
; Patent No. 5968524
; GENERAL INFORMATION:
; APPLICANT: WATSON, JAMES D.
; APPLICANT: TAN, PAUL L.J.
; TITLE OF INVENTION: METHODS AND COMPOUNDS FOR THE TREATMENT OF IMMUNOLOGICALLY-
; NUMBER OF SEQUENCES: 194
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Law Offices of Ann W. Speckman
; STREET: 2601 Elliott Avenue, Suite 4185
; CITY: Seattle
; STATE: WA
; COUNTRY: USA
; ZIP: 98121
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSEQ for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/997,080
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Sleath, Janet
; REGISTRATION NUMBER: 37,007
; REFERENCE/DOCKET NUMBER: 11000.1007
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 206-269-0565
; TELEFAX: 206-269-0563
; TELEX:
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 21 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-997-080-4

Query Match 2.2%; Score 7; DB 2; Length 21;
Best Local Similarity 100.0%; Pred. No. 3.7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 37 PAPAPPP 43
|||||||
Db 2 PAPAPPP 8

RESULT 17
US-08-997-362-4
; Sequence 4, Application US/08997362
; Patent No. 5985287
; GENERAL INFORMATION:
; APPLICANT: Tan, Paul
; APPLICANT: Hiyama, Jun
; APPLICANT: Visser, Elizabeth

```
;    APPLICANT:  Skinner, Margot
;    APPLICANT:  Scott, Linda
;    APPLICANT:  Prestidge, Ross
;    TITLE OF INVENTION:  COMPOUNDS AND METHODS FOR
;    TITLE OF INVENTION:  TREATMENT AND DIAGNOSIS OF MYCOBACTERIAL INFECTIONS
;    NUMBER OF SEQUENCES:  194
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Law Offices of Ann W. Speckman
;      STREET:  2601 Elliott Avenue, Suite 4185
;      CITY:  Seattle
;      STATE:  WA
;      COUNTRY:  USA
;      ZIP:  98121
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette
;      COMPUTER:  IBM Compatible
;      OPERATING SYSTEM:  DOS
;      SOFTWARE:  FastSEQ for Windows Version 2.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/997,362
;      FILING DATE:
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  U.S. Patent Application No. 5985287 08/873,970
;      FILING DATE:  June 12, 1997
;      APPLICATION NUMBER:  U.S. Patent Application No. 5985287 08/705,347
;      FILING DATE:  August 29, 1996
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Sleath, Janet
;      REGISTRATION NUMBER:  37,007
;      REFERENCE/DOCKET NUMBER:  11000.1002c2
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  206-269-0565
;      TELEFAX:  206-269-0563
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  4:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  21 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-997-362-4


  Query Match             2.2%;  Score 7;  DB 2;  Length 21;
  Best Local Similarity   100.0%;  Pred. No. 3.7;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy      37 PAPAPPP 43
           |||||||
Db       2 PAPAPPP 8


RESULT  18
US-08-873-970-4
; Sequence 4, Application US/08873970
; Patent No. 6001361
;  GENERAL INFORMATION:
;    APPLICANT:  Tan, Paul
;    APPLICANT:  Hiyama, Jun
;    APPLICANT:  Visser, Elizabeth
;    APPLICANT:  Skinner, Margot
;    APPLICANT:  Scott, Linda
;    APPLICANT:  Prestidge, Ross
;    TITLE OF INVENTION:  COMPOUNDS AND METHODS FOR
;    TITLE OF INVENTION:  TREATMENT AND DIAGNOSIS OF MYCOBACTERIAL INFECTIONS
;    NUMBER OF SEQUENCES:  106
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Law Offices of Ann W. Speckman
;      STREET:  2601 Elliott Avenue, Suite 4185
;      CITY:  Seattle
;      STATE:  WA
;      COUNTRY:  USA
;      ZIP:  98121
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette
;      COMPUTER:  IBM Compatible
;      OPERATING SYSTEM:  DOS
;      SOFTWARE:  FastSEQ for Windows Version 2.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/873,970
;      FILING DATE:
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/705,347
;      FILING DATE:  29-AUG-1996
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Sleath, Janet
;      REGISTRATION NUMBER:  37,007
;      REFERENCE/DOCKET NUMBER:  11000.1002C1
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  206-269-0565
;      TELEFAX:  206-269-0563
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  4:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  21 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-873-970-4


  Query Match             2.2%;  Score 7;  DB 3;  Length 21;
  Best Local Similarity   100.0%;  Pred. No. 3.7;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy      37 PAPAPPP 43
           |||||||
Db       2 PAPAPPP 8


RESULT  19
US-09-095-855-4
; Sequence 4, Application US/09095855
; Patent No. 6160093
;  GENERAL INFORMATION:
;    APPLICANT:  Tan, Paul
;    APPLICANT:  Visser, Elizabeth
;    APPLICANT:  Skinner, Margot
;    APPLICANT:  Prestidge, Ross
;    TITLE OF INVENTION:  Compounds and Methods for
;    TITLE OF INVENTION:  Treatment and Diagnosis of Mycobacterial Infections
;    NUMBER OF SEQUENCES:  208
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Law Offices of Ann W. Speckman
;      STREET:  2601 Elliott Avenue, Suite 4185
;      CITY:  Seattle
;      STATE:  WA
;      COUNTRY:  USA
;      ZIP:  98121
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette
;      COMPUTER:  IBM Compatible
;      OPERATING SYSTEM:  DOS
;      SOFTWARE:  FastSEQ for Windows Version 2.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/09/095,855
;      FILING DATE:
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/705,347
;      FILING DATE:  29-AUG-1996
;      APPLICATION NUMBER:  08/873,970
```

```
;       FILING DATE:  12-JUN-1997
;       APPLICATION NUMBER:  08/997,362
;       FILING DATE:  23-DEC-1997
;     ATTORNEY/AGENT INFORMATION:
;       NAME:  Sleath, Janet
;       REGISTRATION NUMBER:  37,007
;       REFERENCE/DOCKET NUMBER:  11000.1002c3
;     TELECOMMUNICATION INFORMATION:
;       TELEPHONE:  206-269-0565
;       TELEFAX:  206-269-0563
;       TELEX:
;   INFORMATION FOR SEQ ID NO:  4:
;     SEQUENCE CHARACTERISTICS:
;       LENGTH:  21 amino acids
;       TYPE:  amino acid
;       STRANDEDNESS:  single
;       TOPOLOGY:  linear
;     MOLECULE TYPE:  protein
US-09-095-855-4


  Query Match             2.2%;  Score 7;  DB 4;  Length 21;
  Best Local Similarity   100.0%;  Pred. No. 3.7;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy      37 PAPAPPP 43
           |||||||
Db       2 PAPAPPP 8


RESULT  20
US-08-705-347A-4
; Sequence 4, Application US/08705347A
; Patent No. 6284255
;  GENERAL INFORMATION:
;     APPLICANT:  Tan, Paul
;     APPLICANT:  Hiyama, Jun
;     APPLICANT:  Visser, Elizabeth
;     APPLICANT:  Skinner, Margot
;     APPLICANT:  Scott, Linda
;     TITLE OF INVENTION:  COMPOUNDS AND METHODS FOR TREATMENT AND
;     TITLE OF INVENTION:  DIAGNOSIS OF MYCOBACTERIAL INFECTIONS
;     NUMBER OF SEQUENCES:  55
;     CORRESPONDENCE ADDRESS:
;       ADDRESSEE:  Speckman Picard PLLC
;       STREET:  2601 Elliott Avenue, Suite 4185
;       CITY:  Seattle
;       STATE:  WA
;       COUNTRY:  USA
;       ZIP:  98121
;     COMPUTER READABLE FORM:
;       MEDIUM TYPE:  Floppy disk
;       COMPUTER:  IBM PC compatible
;       OPERATING SYSTEM:  PC-DOS/MS-DOS
;       SOFTWARE:  PatentIn Release #1.0, Version #1.30
;     CURRENT APPLICATION DATA:
;       APPLICATION NUMBER:  US/08/705,347A
;       FILING DATE:  28-AUG-1996
;       CLASSIFICATION:  424
;     ATTORNEY/AGENT INFORMATION:
;       NAME:  Sleath, Janet
;       REGISTRATION NUMBER:  37,007
;       REFERENCE/DOCKET NUMBER:  11000.1002
;     TELECOMMUNICATION INFORMATION:
;       TELEPHONE:  206.269.0565
;       TELEFAX:  206.269.0563
;   INFORMATION FOR SEQ ID NO:  4:
;     SEQUENCE CHARACTERISTICS:
;       LENGTH:  21 amino acids
;       TYPE:  amino acid
;       STRANDEDNESS:  single
;       TOPOLOGY:  linear
;     MOLECULE TYPE:  protein
US-08-705-347A-4


  Query Match             2.2%;  Score 7;  DB 4;  Length 21;
  Best Local Similarity   100.0%;  Pred. No. 3.7;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy      37 PAPAPPP 43
           |||||||
Db       2 PAPAPPP 8


RESULT  21
US-09-324-542-4
; Sequence 4, Application US/09324542
; Patent No. 6328978
; GENERAL INFORMATION:
;  APPLICANT: Watson, James D.
;  APPLICANT: Tan, Paul L.J.
;  APPLICANT: Prestidge, Ross
;  TITLE OF INVENTION: Methods and Compounds for the Treatment
;  TITLE OF INVENTION: of Immunologically-Mediated Skin Disorders
;  FILE REFERENCE: 11000.1007c1
;  CURRENT APPLICATION NUMBER: US/09/324,542
;  CURRENT FILING DATE: 1999-06-02
;  EARLIER APPLICATION NUMBER: US 08/997,080
;  EARLIER FILING DATE: 1997-12-23
;  NUMBER OF SEQ ID NOS: 194
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 4
;   LENGTH: 21
;   TYPE: PRT
;   ORGANISM: Mycobacterium vaccae
US-09-324-542-4


  Query Match             2.2%;  Score 7;  DB 4;  Length 21;
  Best Local Similarity   100.0%;  Pred. No. 3.7;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy      37 PAPAPPP 43
           |||||||
Db       2 PAPAPPP 8


RESULT  22
US-08-640-847C-3
; Sequence 3, Application US/08640847C
; Patent No. 5993865
;  GENERAL INFORMATION:
;     APPLICANT:  BECH, Lene M.
;     APPLICANT:  SORENSEN, Steen B.
;     APPLICANT:  VAAG, Pia
;     APPLICANT:  MULDBJERG, Marianne
;     APPLICANT:  BEENFELDT, Thorkild
;     APPLICANT:  LEAH, Robert
;     APPLICANT:  BREDDAM, Klaus
;     TITLE OF INVENTION:  BEVERAGE AND A METHOD OF PREPARING IT
;     NUMBER OF SEQUENCES:  41
;     CORRESPONDENCE ADDRESS:
;       ADDRESSEE:  LADAS & PARRY
;       STREET:  26 WEST 61 STREET
;       CITY:  NEW YORK
;       STATE:  NY
;       ZIP:  10023
;       COUNTRY:  USA
;     COMPUTER READABLE FORM:
;       MEDIUM TYPE:  3-1/4" Disk   1.44 MB
;       COMPUTER:  IBM PC Compatible
;       OPERATING SYSTEM:  Microsoft Windows for Workgroups 3.11
;       SOFTWARE:  WordPerfect 8 for Windows
;     CURRENT APPLICATION DATA:
;       APPLICATION NUMBER:  US/08/640,847C
```

```
;      FILING DATE:  26-JUN-1996
;      CLASSIFICATION:  426
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  PCT/DK94/00420
;      FILING DATE:  08-NOV-1994
;      APPLICATION NUMBER:  DK001266/93
;      FILING DATE:  08-NOV-1993
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  MASS, Clifford J.
;      REGISTRATION NUMBER:  30,086
;      REFERENCE/DOCKET NUMBER:  U-010781-0
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (212) 708-1890
;      TELEFAX:  (212) 246-8959
;      TELEX:  233288
;  INFORMATION FOR SEQ ID NO:  3:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  41 Amino Acids
;      TYPE:  Amino Acids
;      TOPOLOGY:  Linear
[redacted]08-640-847C-3

  Query Match             2.2%;  Score 7;  DB 2;  Length 41;
  Best Local Similarity   100.0%;  Pred. No. 7.1;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy     170 NAASIPS 176
           |||||||
Db      15 NAASIPS 21


RESULT  23
US-08-640-847C-9
; Sequence 9, Application US/08640847C
; Patent No. 5993865
;  GENERAL INFORMATION:
;    APPLICANT:  BECH, Lene M.
;    APPLICANT:  SORENSEN, Steen B.
;    APPLICANT:  VAAG, Pia
;    APPLICANT:  MULDBJERG, Marianne
;    APPLICANT:  BEENFELDT, Thorkild
;    APPLICANT:  LEAH, Robert
;    APPLICANT:  BREDDAM, Klaus
;    TITLE OF INVENTION:  BEVERAGE AND A METHOD OF PREPARING IT
;    NUMBER OF SEQUENCES:  41
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  LADAS & PARRY
;      STREET:  26 WEST 61 STREET
;      CITY:  NEW YORK
;      STATE:  NY
;      ZIP:  10023
;      COUNTRY:  USA
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  3-1/4" Disk   1.44 MB
;      COMPUTER:  IBM PC Compatible
;      OPERATING SYSTEM:  Microsoft Windows for Workgroups 3.11
;      SOFTWARE:  WordPerfect 8 for Windows
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/640,847C
;      FILING DATE:  26-JUN-1996
;      CLASSIFICATION:  426
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  PCT/DK94/00420
;      FILING DATE:  08-NOV-1994
;      APPLICATION NUMBER:  DK001266/93
;      FILING DATE:  08-NOV-1993
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  MASS, Clifford J.
;      REGISTRATION NUMBER:  30,086
;      REFERENCE/DOCKET NUMBER:  U-010781-0
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (212) 708-1890
;      TELEFAX:  (212) 246-8959
;      TELEX:  233288
;  INFORMATION FOR SEQ ID NO:  9:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  41 Amino Acids
;      TYPE:  Amino Acids
;      TOPOLOGY:  Linear
US-08-640-847C-9


  Query Match             2.2%;  Score 7;  DB 2;  Length 41;
  Best Local Similarity   100.0%;  Pred. No. 7.1;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy     170 NAASIPS 176
           |||||||
Db      15 NAASIPS 21


RESULT  24
US-08-640-847C-12
; Sequence 12, Application US/08640847C
; Patent No. 5993865
;  GENERAL INFORMATION:
;    APPLICANT:  BECH, Lene M.
;    APPLICANT:  SORENSEN, Steen B.
;    APPLICANT:  VAAG, Pia
;    APPLICANT:  MULDBJERG, Marianne
;    APPLICANT:  BEENFELDT, Thorkild
;    APPLICANT:  LEAH, Robert
;    APPLICANT:  BREDDAM, Klaus
;    TITLE OF INVENTION:  BEVERAGE AND A METHOD OF PREPARING IT
;    NUMBER OF SEQUENCES:  41
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  LADAS & PARRY
;      STREET:  26 WEST 61 STREET
;      CITY:  NEW YORK
;      STATE:  NY
;      ZIP:  10023
;      COUNTRY:  USA
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  3-1/4" Disk   1.44 MB
;      COMPUTER:  IBM PC Compatible
;      OPERATING SYSTEM:  Microsoft Windows for Workgroups 3.11
;      SOFTWARE:  WordPerfect 8 for Windows
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/640,847C
;      FILING DATE:  26-JUN-1996
;      CLASSIFICATION:  426
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  PCT/DK94/00420
;      FILING DATE:  08-NOV-1994
;      APPLICATION NUMBER:  DK001266/93
;      FILING DATE:  08-NOV-1993
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  MASS, Clifford J.
;      REGISTRATION NUMBER:  30,086
;      REFERENCE/DOCKET NUMBER:  U-010781-0
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (212) 708-1890
;      TELEFAX:  (212) 246-8959
;      TELEX:  233288
;  INFORMATION FOR SEQ ID NO:  12:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  41 Amino Acids
;      TYPE:  Amino Acids
;      TOPOLOGY:  Linear
US-08-640-847C-12


  Query Match             2.2%;  Score 7;  DB 2;  Length 41;
  Best Local Similarity   100.0%;  Pred. No. 7.1;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;
```

```
Qy     170 NAASIPS 176
           |||||||
Db      15 NAASIPS 21


RESULT  25
US-08-284-391B-35
; Sequence 35, Application US/08284391B
; Patent No. 5851828
;  GENERAL INFORMATION:
;    APPLICANT:  Seed, Brian
;    APPLICANT:  Banapour, Babak
;    APPLICANT:  Romeo, Charles
;    APPLICANT:  Kolanus, Waldemar
;    TITLE OF INVENTION:  TARGETED CYTOLYSIS OF HIV-INFECTED
;    TITLE OF INVENTION:  CELLS BY CHIMERIC CD4 RECEPTOR- BEARING CELLS
;    NUMBER OF SEQUENCES:  53
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Clark & Elbing LLP
;      STREET:  176 Federal Street
;      CITY:  Boston
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02110
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette
;      COMPUTER:  IBM Compatible
;      OPERATING SYSTEM:  DOS
;      SOFTWARE:  FastSEQ for Windows Version 2.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/284,391B
;      FILING DATE:  02-AUG-1994
;      CLASSIFICATION:  514
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/195,395
;      FILING DATE:  14-FEB-1994
;      APPLICATION NUMBER:  07/847,566
;      FILING DATE:  06-MAR-1992
;      APPLICATION NUMBER:  07/665,961
;      FILING DATE:  07-MAR-1991
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Elbing, Karen L
;      REGISTRATION NUMBER:  35,238
;      REFERENCE/DOCKET NUMBER:  00786/247001
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  617-428-0200
;      TELEFAX:  617-428-7045
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  35:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  58 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-284-391B-35


  Query Match             2.2%;  Score 7;  DB 2;  Length 58;
  Best Local Similarity   100.0%;  Pred. No. 9.9;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy      53 LLGLGLG 59
           |||||||
Db      43 LLGLGLG 49


RESULT  26
US-09-218-950-35
; Sequence 35, Application US/09218950
; Patent No. 6284240
;  GENERAL INFORMATION:
;    APPLICANT:  Seed, Brian
;    APPLICANT:  Banapour, Babak
;    APPLICANT:  Romeo, Charles
;    APPLICANT:  Kolanus, Waldemar
;    TITLE OF INVENTION:  TARGETED CYTOLYSIS OF HIV-INFECTED
;    TITLE OF INVENTION:  CELLS BY CHIMERIC CD4 RECEPTOR- BEARING CELLS
;    NUMBER OF SEQUENCES:  53
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Clark & Elbing LLP
;      STREET:  176 Federal Street
;      CITY:  Boston
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02110
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette
;      COMPUTER:  IBM Compatible
;      OPERATING SYSTEM:  DOS
;      SOFTWARE:  FastSEQ for Windows Version 2.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/09/218,950
;      FILING DATE:
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/284,391
;      FILING DATE:  02-AUG-1994
;      APPLICATION NUMBER:  08/195,395
;      FILING DATE:  14-FEB-1994
;      APPLICATION NUMBER:  07/847,566
;      FILING DATE:  06-MAR-1992
;      APPLICATION NUMBER:  07/665,961
;      FILING DATE:  07-MAR-1991
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Elbing, Karen L
;      REGISTRATION NUMBER:  35,238
;      REFERENCE/DOCKET NUMBER:  00786/247001
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  617-428-0200
;      TELEFAX:  617-428-7045
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  35:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  58 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-09-218-950-35


  Query Match             2.2%;  Score 7;  DB 4;  Length 58;
  Best Local Similarity   100.0%;  Pred. No. 9.9;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy      53 LLGLGLG 59
           |||||||
Db      43 LLGLGLG 49


RESULT  27
US-08-591-498-10
; Sequence 10, Application US/08591498
; Patent No. 5773694
;  GENERAL INFORMATION:
;    APPLICANT:  BROEKAERT, WILLEM F.
;    APPLICANT:  CAMMUE, BRUNO P.A.
;    APPLICANT:  REES, SARAH B.
;    TITLE OF INVENTION:  ANTIMICROBIAL PROTEINS
;    NUMBER OF SEQUENCES:  25
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  CUSHMAN DARBY & CUSHMAN
;      ADDRESSEE:  Intellectual Property Group of
;      ADDRESSEE:  PILLSBURY MADISON & SUTRO LLP
```

```
;      STREET:  1100 New York Avenue, N.W.
;      CITY:  Washington
;      STATE:  D.C.
;      COUNTRY:  U.S.A.
;      ZIP:  20005-3918
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/591,498
;      FILING DATE:  25-JAN-1996
;      CLASSIFICATION:  800
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  PCT/GB94/01636
;      FILING DATE:  29-JUL-1994
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  GB 9317816.8
;      FILING DATE:  27-AUG-1993
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  GB 9316158.6
;      FILING DATE:  04-AUG-1993
;  INFORMATION FOR SEQ ID NO:  10:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  93 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
;    ORIGINAL SOURCE:
;      ORGANISM:  PAPI
US-08-591-498-10


  Query Match             2.2%;  Score 7;  DB 1;  Length 93;
  Best Local Similarity   100.0%;  Pred. No. 15;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy     170 NAASIPS 176
           |||||||
Db      67 NAASIPS 73


RESULT  28
US-08-591-498-14
; Sequence 14, Application US/08591498
; Patent No. 5773694
; GENERAL INFORMATION:
;    APPLICANT:  BROEKAERT, WILLEM F.
;    APPLICANT:  CAMMUE, BRUNO P.A.
;    APPLICANT:  REES, SARAH B.
;    TITLE OF INVENTION:  ANTIMICROBIAL PROTEINS
;    NUMBER OF SEQUENCES:  25
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  CUSHMAN DARBY & CUSHMAN
;      ADDRESSEE:  Intellectual Property Group of
;      ADDRESSEE:  PILLSBURY MADISON & SUTRO LLP
;      STREET:  1100 New York Avenue, N.W.
;      CITY:  Washington
;      STATE:  D.C.
;      COUNTRY:  U.S.A.
;      ZIP:  20005-3918
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/591,498
;      FILING DATE:  25-JAN-1996
;      CLASSIFICATION:  800
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  PCT/GB94/01636
;      FILING DATE:  29-JUL-1994
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  GB 9317816.8
;      FILING DATE:  27-AUG-1993
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  GB 9316158.6
;      FILING DATE:  04-AUG-1993
;  INFORMATION FOR SEQ ID NO:  14:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  93 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
;    ORIGINAL SOURCE:
;      ORGANISM:  Zm-nsLTP
US-08-591-498-14


  Query Match             2.2%;  Score 7;  DB 1;  Length 93;
  Best Local Similarity   100.0%;  Pred. No. 15;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy     170 NAASIPS 176
           |||||||
Db      67 NAASIPS 73


RESULT  29
US-08-702-609A-4
; Sequence 4, Application US/08702609A
; Patent No. 6031152
;  GENERAL INFORMATION:
;    APPLICANT:  Olsen, Odd-Arne
;    APPLICANT:  Kalla, Roger
;    APPLICANT:  Linnestad, Casper
;    TITLE OF INVENTION:  Promoter from a Lipid
;    TITLE OF INVENTION:  Transfer Protein Gene
;    NUMBER OF SEQUENCES:  6
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Plant Molecular Biology Laboratory,
;      ADDRESSEE:  Department of Biotechnical Sciences, Agricultural
;      ADDRESSEE:  University of No. 6031152way and Agricultural Biotechnology
;      ADDRESSEE:  Program NRC
;      COUNTRY:  No. 6031152way
;      ZIP:  N-1432
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  3.5" 1.44 Mb diskette
;      COMPUTER:  IBM PC
;      OPERATING SYSTEM:  WINDOWS 98
;      SOFTWARE:  Word Processing
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/702,609A
;      FILING DATE:  20-NOV-1996
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  PCT\NO95\00042
;      FILING DATE:  23.02.95
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Thaddius J. Carvis
;      REGISTRATION NUMBER:  26110
;      REFERENCE/DOCKET NUMBER:  833-P0016A
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  203-324-6155
;      TELEFAX:  203-327-1096
;  INFORMATION FOR SEQ ID NO:  4:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  117 residues
;      TYPE:  amino acid
;      STRANDEDNESS:  double
;      TOPOLOGY:  linear
;    MOLECULE TYPE:
```

; ORIGINAL SOURCE:
; ORGANISM: Barley
; PUBLICATION INFORMATION:
; AUTHORS:
; AUTHORS: Linnestad, Casper
; AUTHORS: Lonneborg, Anders
; AUTHORS: Kalla, Roger
; AUTHORS: Olsen, Odd-Arne
; TITLE: Promoter of a Lipid Transfer Protein Gene
; TITLE: Expressed in Barley Aleurone Cells Contains
; TITLE: Similar myb and myc Recognition Sites as the Maize
; TITLE: Bz-McC Allele
; JOURNAL: Plant Physiol.
; VOLUME: 97
; PAGES: 842
; DATE: 17.06.91
US-08-702-609A-4

Query Match 2.2%; Score 7; DB 3; Length 117;
Best Local Similarity 100.0%; Pred. No. 19;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 170 NAASIPS 176
|||||||
Db 91 NAASIPS 97

RESULT 30
US-08-702-609A-6
; Sequence 6, Application US/08702609A
; Patent No. 6031152
; GENERAL INFORMATION:
; APPLICANT: Olsen, Odd-Arne
; APPLICANT: Kalla, Roger
; APPLICANT: Linnestad, Casper
; TITLE OF INVENTION: Promoter from a Lipid
; TITLE OF INVENTION: Transfer Protein Gene
; NUMBER OF SEQUENCES: 6
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Plant Molecular Biology Laboratory,
; ADDRESSEE: Department of Biotechnical Sciences, Agricultural
; ADDRESSEE: University of No. 6031152way and Agricultural Biotechnology
; ADDRESSEE: Program NRC
; COUNTRY: No. 6031152way
; ZIP: N-1432
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" 1.44 Mb diskette
; COMPUTER: IBM PC
; OPERATING SYSTEM: WINDOWS 98
; SOFTWARE: Word Processing
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/702,609A
; FILING DATE: 20-NOV-1996
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT\NO95\00042
; FILING DATE: 23.02.95
; ATTORNEY/AGENT INFORMATION:
; NAME: Thaddius J. Carvis
; REGISTRATION NUMBER: 26110
; REFERENCE/DOCKET NUMBER: 833-P0016A
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 203-324-6155
; TELEFAX: 203-327-1096
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 117 residues
; TYPE: amino acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE:
; ORIGINAL SOURCE:
; ORGANISM: Barley
; PUBLICATION INFORMATION:
; AUTHORS:
; AUTHORS: Skriver, Karen
; AUTHORS: Leah, Robert
; AUTHORS: Muller-Uri, Frieder
; AUTHORS: Olsen, Finn-Lok
; AUTHORS: Mundy, John
; TITLE: Structure and Expression of the Barley Lipid Transfer Protein Promoter
; JOURNAL: Plant Molecular Biology
; VOLUME: 18
; PAGES: 587
; DATE: 16.09.91
US-08-702-609A-6

Query Match 2.2%; Score 7; DB 3; Length 117;
Best Local Similarity 100.0%; Pred. No. 19;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 170 NAASIPS 176
|||||||
Db 91 NAASIPS 97

RESULT 31
US-08-799-149C-3
; Sequence 3, Application US/08799149C
; Patent No. 6008195
; GENERAL INFORMATION:
; APPLICANT: Michael E. Selsted
; TITLE OF INVENTION: Antimicrobial Peptides and
; TITLE OF INVENTION: Methods of Use
; NUMBER OF SEQUENCES: 7
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson, P.C.
; STREET: 4225 Executive Square, Suite 1400
; CITY: La Jolla
; STATE: CA
; COUNTRY: USA
; ZIP: 92037
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: Windows95
; SOFTWARE: FastSEQ for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/799,149C
; FILING DATE: 14-February-1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/011,834
; FILING DATE: 16-February-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Lisa A. Haile, Ph.D.
; REGISTRATION NUMBER: 38,347
; REFERENCE/DOCKET NUMBER: 07306/009001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619/678-5070
; TELEFAX: 619/678-5099
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 190 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FEATURE:
; NAME/KEY: Coding Sequence
; LOCATION: 39..598
US-08-799-149C-3

Query Match 2.2%; Score 7; DB 3; Length 190;
Best Local Similarity 100.0%; Pred. No. 31;

Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
Qy      51 LALLGLG 57
           |||||||
Db      13 LALLGLG 19
```

RESULT 32
US-09-199-637A-211
; Sequence 211, Application US/09199637A
; Patent No. 6355411
; GENERAL INFORMATION:
; APPLICANT: Ausubel, Frederick
; APPLICANT: Goodman, Howard M.
; APPLICANT: Rahme, Laurence G.
; APPLICANT: Mahajan-Miklos, Shalina
; APPLICANT: Tan, Man-Wah
; APPLICANT: Cao, Hui
; APPLICANT: Drenkard, Eliana
; APPLICANT: Tsongalis, John
; TITLE OF INVENTION: VIRULENCE-ASSOCIATED NUCLEIC ACID
; TITLE OF INVENTION: SEQUENCES AND USES THEREOF
; FILE REFERENCE: 00786/361002
; CURRENT APPLICATION NUMBER: US/09/199,637A
; CURRENT FILING DATE: 1998-11-25
; PRIOR APPLICATION NUMBER: 60/066,517
; PRIOR FILING DATE: 1997-11-25
; NUMBER OF SEQ ID NOS: 437
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 211
; LENGTH: 207
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-199-637A-211

Query Match 2.2%; Score 7; DB 4; Length 207;
Best Local Similarity 100.0%; Pred. No. 33;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
Qy      33 APSAPAP 39
           |||||||
Db      89 APSAPAP 95
```

RESULT 33
US-09-171-461-11
; Sequence 11, Application US/09171461
; Patent No. 6335016
; GENERAL INFORMATION:
; APPLICANT: Baker, Adam
; APPLICANT: Cotten, Matthew
; APPLICANT: Chiocca, Susanna
; APPLICANT: Kurzbauer, Robert
; APPLICANT: Schaffner, Gotthold
; TITLE OF INVENTION: Chicken Embryo Lethal Orphan (CELO) Virus
; FILE REFERENCE: 0652.1800000
; CURRENT APPLICATION NUMBER: US/09/171,461
; CURRENT FILING DATE: 1999-01-12
; EARLIER APPLICATION NUMBER: PCT/EP97/01944
; EARLIER FILING DATE: 1997-04-18
; NUMBER OF SEQ ID NOS: 54
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 11
; LENGTH: 223
; TYPE: PRT
; ORGANISM: CELO Virus
; FEATURE:
; OTHER INFORMATION: Position: 17559..18230 /gene: L3 /product: L3 pVI
US-09-171-461-11

Query Match 2.2%; Score 7; DB 4; Length 223;
Best Local Similarity 100.0%; Pred. No. 36;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
Qy      36 APAPAPP 42
           |||||||
Db     143 APAPAPP 149
```

RESULT 34
US-08-420-235B-47
; Sequence 47, Application US/08420235B
; Patent No. 5801042
; GENERAL INFORMATION:
; APPLICANT: Chang, Yuan
; APPLICANT: Moore, Patrick S.
; TITLE OF INVENTION: UNIQUE ASSOCIATED KAPOSI'S SARCOMA VIRUS
; TITLE OF INVENTION: SEQUENCES AND USES THEREOF
; NUMBER OF SEQUENCES: 47
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Cooper & Dunham LLP
; STREET: 1185 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 10036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/420,235B
; FILING DATE:
; CLASSIFICATION: 424
; ATTORNEY/AGENT INFORMATION:
; NAME: White, John P.
; REGISTRATION NUMBER: 28,678
; REFERENCE/DOCKET NUMBER: 45185-B
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 278-0400
; TELEFAX: (212) 391-0525
; INFORMATION FOR SEQ ID NO: 47:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 301 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-420-235B-47

Query Match 2.2%; Score 7; DB 1; Length 301;
Best Local Similarity 100.0%; Pred. No. 47;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
Qy      55 GLGLGQV 61
           |||||||
Db      42 GLGLGQV 48
```

RESULT 35
US-08-343-101A-22
; Sequence 22, Application US/08343101A
; Patent No. 5830759
; GENERAL INFORMATION:
; APPLICANT: Chang, Yuan
; APPLICANT: Moore, Patrick S.
; TITLE OF INVENTION: Unique Associated Kaposi's Sarcoma
; TITLE OF INVENTION: Virus Sequences And Uses Thereof
; NUMBER OF SEQUENCES: 22
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Cooper & Dunham
; STREET: 1185 Avenue of the Americas
; CITY: New York

```
;       STATE:  New York
;       COUNTRY:  U.S.A.
;       ZIP:  10036
;     COMPUTER READABLE FORM:
;       MEDIUM TYPE:  Floppy disk
;       COMPUTER:  IBM PC compatible
;       OPERATING SYSTEM:  PC-DOS/MS-DOS
;       SOFTWARE:  PatentIn Release #1.24
;     CURRENT APPLICATION DATA:
;       APPLICATION NUMBER:  US/08/343,101A
;       FILING DATE:
;       CLASSIFICATION:  514
;     ATTORNEY/AGENT INFORMATION:
;       NAME:  White Esq., John P.
;       REGISTRATION NUMBER:  28,678
;       REFERENCE/DOCKET NUMBER:  45185-A
;     TELECOMMUNICATION INFORMATION:
;       TELEPHONE:  212-278-0400
;       TELEFAX:  212-391-0526
;   INFORMATION FOR SEQ ID NO:  22:
;     SEQUENCE CHARACTERISTICS:
;       LENGTH:  301 amino acids
;       TYPE:  amino acid
;       TOPOLOGY:  linear
;     MOLECULE TYPE:  protein
US-08-343-101A-22


  Query Match             2.2%;  Score 7;  DB 2;  Length 301;
  Best Local Similarity   100.0%;  Pred. No. 47;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy      55 GLGLGQV 61
           |||||||
Db      42 GLGLGQV 48


RESULT  36
US-09-183-688-22
; Sequence 22, Application US/09183688
; Patent No. 6093550
;  GENERAL INFORMATION:
;    APPLICANT:  Chang, Yuan
;    APPLICANT:  Moore, Patrick S.
;    TITLE OF INVENTION:  Unique Associated Kaposi's Sarcoma
;    TITLE OF INVENTION:  Virus Sequences And Uses Thereof
;    NUMBER OF SEQUENCES:  22
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Cooper & Dunham
;      STREET:  1185 Avenue of the Americas
;      CITY:  New York
;      STATE:  New York
;      COUNTRY:  U.S.A.
;      ZIP:  10036
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.24
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/09/183,688
;      FILING DATE:
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/343,101
;      FILING DATE:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  White Esq., John P.
;      REGISTRATION NUMBER:  28,678
;      REFERENCE/DOCKET NUMBER:  45185-A
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  212-278-0400
;      TELEFAX:  212-391-0526
;  INFORMATION FOR SEQ ID NO:  22:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  301 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-09-183-688-22


  Query Match             2.2%;  Score 7;  DB 3;  Length 301;
  Best Local Similarity   100.0%;  Pred. No. 47;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy      55 GLGLGQV 61
           |||||||
Db      42 GLGLGQV 48


RESULT  37
US-08-793-624-47
; Sequence 47, Application US/08793624C
; Patent No. 6150093
; GENERAL INFORMATION:
;  APPLICANT: Chang, Yuan
;  APPLICANT: Moore, Patrick S.
;  TITLE OF INVENTION: Unique Associated Kaposi's Sarcoma Virus Sequences And
;  TITLE OF INVENTION: Uses Thereof
;  FILE REFERENCE: 45185-C-PCT-US/JPW
;  CURRENT APPLICATION NUMBER: US/08/793,624C
;  CURRENT FILING DATE: 1997-02-18
;  NUMBER OF SEQ ID NOS: 58
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 47
;   LENGTH: 301
;   TYPE: PRT
;   ORGANISM: Epstein Barr Virus
US-08-793-624-47


  Query Match             2.2%;  Score 7;  DB 4;  Length 301;
  Best Local Similarity   100.0%;  Pred. No. 47;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy      55 GLGLGQV 61
           |||||||
Db      42 GLGLGQV 48


RESULT  38
US-08-861-464-12
; Sequence 12, Application US/08861464
; Patent No. 5874210
;  GENERAL INFORMATION:
;    APPLICANT:  Guarente, Leonard P.
;    APPLICANT:  Austriaco Jr., Nicanor
;    APPLICANT:  Kennedy, Brian
;    TITLE OF INVENTION:  Genes Determining Cellular Senescence
;    TITLE OF INVENTION:  in Yeast
;    NUMBER OF SEQUENCES:  16
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Hamilton, Brook, Smith & Reynolds, P.C.
;      STREET:  Two Militia Drive
;      CITY:  Lexington
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02173
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/861,464
```

```
;      FILING DATE:  22-MAY-1997
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/396,001
;      FILING DATE:  28-FEB-1995
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  PCT/US94/09351
;      FILING DATE:  15-AUG-1994
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/107,408
;      FILING DATE:  16-AUG-1993
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Granahan, Patricia
;      REGISTRATION NUMBER:  32,227
;      REFERENCE/DOCKET NUMBER:  MIT-6408A2Z
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  781-861-6240
;      TELEFAX:  781-861-9540
;  INFORMATION FOR SEQ ID NO:  12:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  337 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-861-464-12


  Query Match             2.2%;  Score 7;  DB 2;  Length 337;
  Best Local Similarity   100.0%;  Pred. No. 53;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy      35 SAPAPAP 41
           |||||||
Db      18 SAPAPAP 24


RESULT  39
US-08-396-001-12
; Sequence 12, Application US/08396001
; Patent No. 5919618
;  GENERAL INFORMATION:
;    APPLICANT:  Guarente, Leonard P.
;    APPLICANT:  Austriaco Jr., Nicanor
;    APPLICANT:  Claus, James
;    APPLICANT:  Cole, Francesca
;    APPLICANT:  Kennedy, Brian
;    TITLE OF INVENTION:  Genes Determining Cellular Senesence in
;    TITLE OF INVENTION:  Yeast
;    NUMBER OF SEQUENCES:  16
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Hamilton, Brook, Smith & Reynolds, P.C.
;      STREET:  Two Militia Drive
;      CITY:  Lexington
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02173
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/396,001
;      FILING DATE:  28-FEB-1995
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Granahan, Patricia
;      REGISTRATION NUMBER:  32,227
;      REFERENCE/DOCKET NUMBER:  MIT-6408A2
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  617-861-6240
;      TELEFAX:  617-861-9540
;  INFORMATION FOR SEQ ID NO:  12:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  337 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-396-001-12


  Query Match             2.2%;  Score 7;  DB 2;  Length 337;
  Best Local Similarity   100.0%;  Pred. No. 53;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy      35 SAPAPAP 41
           |||||||
Db      18 SAPAPAP 24


RESULT  40
US-09-323-433A-12
; Sequence 12, Application US/09323433A
; Patent No. 6218512
; GENERAL INFORMATION:
;  APPLICANT:  Guarente, Leonard P.
;  APPLICANT:  Austriaco Jr., Nicanor
;  APPLICANT:  Claus, James J.
;  APPLICANT:  Cole, Francesca
;  APPLICANT:  Kennedy, Brian
;  TITLE OF INVENTION:  GENES DETERMINING CELLULAR SENESCENCE IN
;  TITLE OF INVENTION:  YEAST
;  FILE REFERENCE:  0050.1491-003
;  CURRENT APPLICATION NUMBER: US/09/323,433A
;  CURRENT FILING DATE:  1999-06-01
;  PRIOR APPLICATION NUMBER:  US 08/396,001
;  PRIOR FILING DATE:  1995-02-28
;  PRIOR APPLICATION NUMBER:  PCT/US94/09351
;  PRIOR FILING DATE:  1994-08-15
;  PRIOR APPLICATION NUMBER:  US 08/107,408
;  PRIOR FILING DATE:  1993-08-16
;  NUMBER OF SEQ ID NOS:  48
;  SOFTWARE:  FastSEQ for Windows Version 3.0
; SEQ ID NO 12
;   LENGTH: 337
;   TYPE: PRT
;   ORGANISM: Saccharomyces cerevisiae
US-09-323-433A-12


  Query Match             2.2%;  Score 7;  DB 4;  Length 337;
  Best Local Similarity   100.0%;  Pred. No. 53;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy      35 SAPAPAP 41
           |||||||
Db      18 SAPAPAP 24


RESULT  41
US-09-142-551A-4
; Sequence 4, Application US/09142551A
; Patent No. 6218136
; GENERAL INFORMATION:
;  APPLICANT:  KUMAR, SANJAY
;  APPLICANT:  LIVI, GEORGE P.
;  APPLICANT:  MCLAUGHLIN, MEGAN M.
;  APPLICANT:  YOUNG, PETER R.
;  TITLE OF INVENTION:  METHODS OF THE IDENTIFICATION OF
;  TITLE OF INVENTION:  PHARMACEUTICALLY ACTIVE COMPOUNDS
;  FILE REFERENCE:  P50448
;  CURRENT APPLICATION NUMBER: US/09/142,551A
;  CURRENT FILING DATE:  1998-09-10
;  PRIOR APPLICATION NUMBER:  PCT/US97/04256
;  PRIOR FILING DATE:  1997-03-12
;  PRIOR APPLICATION NUMBER:  US 60/013,286
```

```
;  PRIOR FILING DATE:  1996-03-12
;  NUMBER OF SEQ ID NOS:  4
;  SOFTWARE:  FastSEQ for Windows Version 3.0
; SEQ ID NO 4
;   LENGTH: 370
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-09-142-551A-4


  Query Match             2.2%;  Score 7;  DB 4;  Length 370;
  Best Local Similarity   100.0%;  Pred. No. 58;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy      37 PAPAPPP 43
           |||||||
Db      15 PAPAPPP 21


RESULT  42
US-08-872-979-3
; Sequence 3, Application US/08872979
; Patent No. 6074844
;  GENERAL INFORMATION:
;    APPLICANT:  Hillman, Jennifer L.
;    APPLICANT:  Lal, Preeti
;    APPLICANT:  Corley, Neil C.
;    TITLE OF INVENTION:  TWO NEW HUMAN MEMBRANE FUSION PROTEINS
;    NUMBER OF SEQUENCES:  8
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Incyte Pharmaceuticals, Inc.
;      STREET:  3174 Porter Drive
;      CITY:  Palo Alto
;      STATE:  CA
;      COUNTRY:  USA
;      ZIP:  94304
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette
;      COMPUTER:  IBM Compatible
;      OPERATING SYSTEM:  DOS
;      SOFTWARE:  FastSEQ for Windows Version 2.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/872,979
;      FILING DATE:  Herewith
;      CLASSIFICATION:  514
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:
;      FILING DATE:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Billings, Lucy J.
;      REGISTRATION NUMBER:  36,749
;      REFERENCE/DOCKET NUMBER:  PF-0320 US
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  415-855-0555
;      TELEFAX:  415-845-4166
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  3:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  375 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    IMMEDIATE SOURCE:
;      LIBRARY:  LUNGNOT12
;      CLONE:  1003941
US-08-872-979-3


  Query Match             2.2%;  Score 7;  DB 3;  Length 375;
  Best Local Similarity   100.0%;  Pred. No. 59;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy      34 PSAPAPA 40
           |||||||
Db       8 PSAPAPA 14


RESULT  43
US-09-142-551A-3
; Sequence 3, Application US/09142551A
; Patent No. 6218136
; GENERAL INFORMATION:
;  APPLICANT:  KUMAR, SANJAY
;  APPLICANT:  LIVI, GEORGE P.
;  APPLICANT:  MCLAUGHLIN, MEGAN M.
;  APPLICANT:  YOUNG, PETER R.
;  TITLE OF INVENTION:  METHODS OF THE IDENTIFICATION OF
;  TITLE OF INVENTION:  PHARMACEUTICALLY ACTIVE COMPOUNDS
;  FILE REFERENCE:  P50448
;  CURRENT APPLICATION NUMBER: US/09/142,551A
;  CURRENT FILING DATE:  1998-09-10
;  PRIOR APPLICATION NUMBER:  PCT/US97/04256
;  PRIOR FILING DATE:  1997-03-12
;  PRIOR APPLICATION NUMBER:  US 60/013,286
;  PRIOR FILING DATE:  1996-03-12
;  NUMBER OF SEQ ID NOS:  4
;  SOFTWARE:  FastSEQ for Windows Version 3.0
; SEQ ID NO 3
;   LENGTH: 396
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-09-142-551A-3


  Query Match             2.2%;  Score 7;  DB 4;  Length 396;
  Best Local Similarity   100.0%;  Pred. No. 62;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy      37 PAPAPPP 43
           |||||||
Db      11 PAPAPPP 17


RESULT  44
US-08-485-938A-34
; Sequence 34, Application US/08485938A
; Patent No. 5847088
;  GENERAL INFORMATION:
;    APPLICANT:  Cousens, Lawrence S.
;    APPLICANT:  Eberhardt, Christine D.
;    APPLICANT:  Gray, Patrick W.
;    APPLICANT:  Le Trong, Hai
;    APPLICANT:  Tjoelker, Larry W.
;    APPLICANT:  Wilder, Cheryl L.
;    TITLE OF INVENTION:  Platelet-Activating Factor
;    TITLE OF INVENTION:  Acetylhydrolase
;    NUMBER OF SEQUENCES:  36
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Marshall, O'Toole, Gerstein, Murray & Borun
;      STREET:  6300 Sears Tower, 233 South Wacker Drive
;      CITY:  Chicago
;      STATE:  Illinois
;      COUNTRY:  United States of America
;      ZIP:  60606-6402
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/485,938A
;      FILING DATE:
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/318,905
;      FILING DATE:  06-OCT-1994
```

```
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/133,803
;      FILING DATE:  06-OCT-1993
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  No. 5847088and, Greta E.
;      REGISTRATION NUMBER:  35,302
;      REFERENCE/DOCKET NUMBER:  27866/32792
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (312) 474-6300
;      TELEFAX:  (312) 474-0448
;      TELEX:  25-3658
;  INFORMATION FOR SEQ ID NO:  34:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  422 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-485-938A-34


 Query Match             2.2%;  Score 7;  DB 2;  Length 422;
 Best Local Similarity   100.0%;  Pred. No. 66;
 Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy     281 KLRAGEE 287
           |||||||
Db     200 KLRAGEE 206


RESULT  45
US-08-390-000A-7
; Sequence 7, Application US/08390000A
; Patent No. 5985583
;  GENERAL INFORMATION:
;    APPLICANT:  Sealfon, Stuart C.
;    TITLE OF INVENTION:  Cloning and Expression of
;    TITLE OF INVENTION:  Gonadotropin-Releasing Hormone Receptor
;    NUMBER OF SEQUENCES:  8
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Pennie & Edmonds LLP
;      STREET:  1155 Avenue of the Americas
;      CITY:  New York
;      STATE:  New York
;      COUNTRY:  U.S.A.
;      ZIP:  10036-2711
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/390,000A
;      FILING DATE:  17-FEB-1995
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Misrock, S. Leslie
;      REGISTRATION NUMBER:  18,872
;      REFERENCE/DOCKET NUMBER:  6923-052
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  212 790-9090
;      TELEFAX:  212 869-8864/9741
;      TELEX:  66141 PENNIE
;  INFORMATION FOR SEQ ID NO:  7:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  468 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  unknown
;    MOLECULE TYPE:  protein
US-08-390-000A-7


  Query Match '           2.2%;  Score 7;  DB 2;  Length 468;
  Best Local Similarity   100.0%;  Pred. No. 72;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy      37 PAPAPPP 43
           |||||||
Db     272 PAPAPPP 278


RESULT  46
US-08-194-338-6
; Sequence 6, Application US/08194338
; Patent No. 5474898
;  GENERAL INFORMATION:
;    APPLICANT:  Venter, John C.
;    APPLICANT:  Fraser, Claire M.
;    APPLICANT:  McCombie, William R.
;    TITLE OF INVENTION:  OCTOPAMINE RECEPTOR
;    NUMBER OF SEQUENCES:  16
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Knobbe, Martens, olson and Bear
;      STREET:  620 Newport Center Drive, Sixteenth Floor
;      CITY:  Newport Beach
;      STATE:  CA
;      COUNTRY:  USA
;      ZIP:  92660
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/194,338
;      FILING DATE:  08-FEB-1994
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/676,174
;      FILING DATE:  28-MAR-1991
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Israelsen, Ned A.
;      REGISTRATION NUMBER:  29,655
;      REFERENCE/DOCKET NUMBER:  NIH101.001DV1
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (619) 235-8550
;      TELEFAX:  (619) 235-0176
;  INFORMATION FOR SEQ ID NO:  6:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  472 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
;    HYPOTHETICAL:  NO
;    ANTI-SENSE:  NO
;    FRAGMENT TYPE:  internal
US-08-194-338-6


  Query Match             2.2%;  Score 7;  DB 1;  Length 472;
  Best Local Similarity   100.0%;  Pred. No. 73;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy      37 PAPAPPP 43
           |||||||
Db     275 PAPAPPP 281


RESULT  47
US-08-444-734A-4
; Sequence 4, Application US/08444734A
; Patent No. 5610282
;  GENERAL INFORMATION:
;    APPLICANT:  Sibley, David R.
;    APPLICANT:  Monsma, Frederick J.
;    APPLICANT:  Mahan, Lawrence C.
```

```
;    APPLICANT:  McVittie, Loris D.
;    TITLE OF INVENTION:  cDNA encoding the rat D1 dopamine
;    TITLE OF INVENTION:  receptor linked to adnylyl cyclase activation and
;    TITLE OF INVENTION:  expression of the receptor protein in plasmid-transfected
;    TITLE OF INVENTION:  cell lines
;    NUMBER OF SEQUENCES:  13
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Knobbe, Martens, Olson and Bear
;      STREET:  620 Newport Center Drive, Sixteenth Floor
;      CITY:  Newport Beach
;      STATE:  CA
;      COUNTRY:  USA
;      ZIP:  92660
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/444,734A
;      FILING DATE:
;      CLASSIFICATION:  530
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/029,917
;      FILING DATE:  03-MAR-1993
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/548,714
;      FILING DATE:  06-JUL-1990
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Altman, Daniel E.
;      REGISTRATION NUMBER:  34,115
;      REFERENCE/DOCKET NUMBER:  NIH065.001FW1
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (714) 760-0404
;      TELEFAX:  (714) 760-9502
;  INFORMATION FOR SEQ ID NO:  4:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  477 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
;    HYPOTHETICAL:  NO
;    ANTI-SENSE:  NO
;    FRAGMENT TYPE:  internal
US-08-444-734A-4


  Query Match             2.2%;  Score 7;  DB 1;  Length 477;
  Best Local Similarity   100.0%;  Pred. No. 74;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy      37 PAPAPPP 43
           |||||||
Db     281 PAPAPPP 287


RESULT  48
US-08-087-772A-16
; Sequence 16, Application US/08087772A
; Patent No. 5691155
;  GENERAL INFORMATION:
;    APPLICANT:  Nahmias, Clara
;    APPLICANT:  Emorine, Jean L.
;    APPLICANT:  Strosberg, Donny A.
;    TITLE OF INVENTION:  Nucleotide Sequences Encoding the Murine
;    TITLE OF INVENTION:  Beta3-Adrenergic Receptor and Their Applications
;    NUMBER OF SEQUENCES:  17
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Bell, Seltzer, Park & Gibson
;      STREET:  Post Office Drawer 34009
;      CITY:  Charlotte
;      STATE:  No. 5691155th Carolina
;      COUNTRY:  USA
;      ZIP:  28234
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/087,772A
;      FILING DATE:
;      CLASSIFICATION:  800
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Linker, Raymond O.
;      REGISTRATION NUMBER:  26,419
;      REFERENCE/DOCKET NUMBER:  3339-195
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  919-881-3140
;      TELEFAX:  919-881-3175
;  INFORMATION FOR SEQ ID NO:  16:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  477 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-087-772A-16


  Query Match             2.2%;  Score 7;  DB 1;  Length 477;
  Best Local Similarity   100.0%;  Pred. No. 74;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy      37 PAPAPPP 43
           |||||||
Db     281 PAPAPPP 287


RESULT  49
US-09-111-085-2
; Sequence 2, Application US/09111085
; Patent No. 6100034
; GENERAL INFORMATION:
;  APPLICANT: Stoye, Jonathan P
;  APPLICANT: Weiss, Robin A
;  TITLE OF INVENTION: Detection of retroviral subtypes based upon envelope
;  TITLE OF INVENTION: specific sequences
;  FILE REFERENCE: 4238/75168
;  CURRENT APPLICATION NUMBER: US/09/111,085
;  CURRENT FILING DATE: 1998-07-07
;  EARLIER APPLICATION NUMBER: GB 9710154.7
;  EARLIER FILING DATE: 1997-05-16
;  NUMBER OF SEQ ID NOS: 16
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
;   LENGTH: 660
;   TYPE: PRT
;   ORGANISM: Porcine retrovirus
US-09-111-085-2


  Query Match             2.2%;  Score 7;  DB 3;  Length 660;
  Best Local Similarity   100.0%;  Pred. No. 1e+02;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy     226 TSGSVPT 232
           |||||||
Db     286 TSGSVPT 292


RESULT  50
US-09-376-781-5
; Sequence 5, Application US/09376781
; Patent No. 6261806
```

; GENERAL INFORMATION:
; APPLICANT: Banerjee, Papia T.
; APPLICANT: Patience, Clive
; APPLICANT: Andersson, Goran K.
; TITLE OF INVENTION: Molecular Sequence of Swine Retrovirus and Methods of
; Patent No. 6261806
; TITLE OF INVENTION: Use
; FILE REFERENCE: 61750-267
; CURRENT APPLICATION NUMBER: US/09/376,781
; CURRENT FILING DATE: 1999-08-18
; EARLIER APPLICATION NUMBER: 60/097,015
; EARLIER FILING DATE: 1998-08-18
; NUMBER OF SEQ ID NOS: 33
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 5
; LENGTH: 660
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:PERV-A
; OTHER INFORMATION: polypeptide sequence taken from GenBank Accession
; OTHER INFORMATION: No. 6261806 Y12238 for comparison.
US-09-376-781-5

Query Match 2.2%; Score 7; DB 4; Length 660;
Best Local Similarity 100.0%; Pred. No. 1e+02;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 226 TSGSVPT 232
|||||||
Db 286 TSGSVPT 292

Search completed: September 30, 2002, 16:09:08
Job time: 176 sec

GenCore version 4.5

OM protein - protein search, using sw model

Run on: September 30, 2002, 16:05:41 ; Search time 13.07 Seconds
(without alignments)
590.550 Million cell updates/sec

Title: US-09-671-658A-2
Perfect score: 1675
Sequence: 1 MRRASRDYGKYLRSSEEMGS.....LLDPDQDATYFGAFKVQDID 316

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 231628 seqs, 24425594 residues

Total number of hits satisfying chosen parameters: 231628

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued_Patents_AA:*
1: /cgn2_6/ptodata/2/iaa/5A_COMB.pep:*
2: /cgn2_6/ptodata/2/iaa/5B_COMB.pep:*
3: /cgn2_6/ptodata/2/iaa/6A_COMB.pep:*
4: /cgn2_6/ptodata/2/iaa/6B_COMB.pep:*
5: /cgn2_6/ptodata/2/iaa/PCTUS_COMB.pep:*
6: /cgn2_6/ptodata/2/iaa/backfiles1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	1675	100.0	316	2	US-08-842-842-7	Sequence 7, Appli
2	1675	100.0	316	4	US-08-989-362-2	Sequence 2, Appli
3	1675	100.0	316	4	US-09-052-521C-2	Sequence 2, Appli
4	1554	92.8	294	3	US-08-996-139-11	Sequence 11, Appl
5	1554	92.8	294	4	US-08-995-659-11	Sequence 11, Appl
6	1554	92.8	294	4	US-09-215-649A-11	Sequence 11, Appl
7	1417.5	84.6	317	3	US-08-996-139-13	Sequence 13, Appl
8	1417.5	84.6	317	4	US-08-995-659-13	Sequence 13, Appl
9	1417.5	84.6	317	4	US-09-215-649A-13	Sequence 13, Appl
10	1417.5	84.6	317	4	US-09-052-521C-4	Sequence 4, Appli
11	258.5	15.4	279	4	US-09-072-993C-3	Sequence 3, Appli
12	258.5	15.4	281	1	US-08-670-354-2	Sequence 2, Appli
13	258.5	15.4	281	3	US-08-584-031-1	Sequence 1, Appli
14	258.5	15.4	281	3	US-08-780-496-1	Sequence 1, Appli
15	258.5	15.4	281	4	US-08-883-086-10	Sequence 10, Appl
16	258.5	15.4	281	4	US-09-320-424-2	Sequence 2, Appli
17	258.5	15.4	281	4	US-09-333-593A-6	Sequence 6, Appli
18	258.5	15.4	281	5	PCT-US96-10895-2	Sequence 2, Appli
19	244	14.6	291	1	US-08-670-354-6	Sequence 6, Appli
20	244	14.6	291	4	US-09-320-424-6	Sequence 6, Appli
21	244	14.6	291	5	PCT-US96-10895-6	Sequence 6, Appli
22	240	14.3	256	4	US-09-320-424-13	Sequence 13, Appl
23	236	14.1	253	4	US-09-320-424-11	Sequence 11, Appl
24	229.5	13.7	177	4	US-09-105-343A-7	Sequence 7, Appli
25	224	13.4	183	4	US-09-105-343A-8	Sequence 8, Appli
26	183	10.9	278	4	US-08-339-214-16	Sequence 16, Appl
27	183	10.9	278	4	US-08-339-214-26	Sequence 26, Appl
28	182	10.9	279	4	US-08-339-214-24	Sequence 24, Appl
29	182	10.9	279	4	US-08-339-214-32	Sequence 32, Appl
30	173.5	10.4	281	2	US-08-810-453-2	Sequence 2, Appli
31	173.5	10.4	281	3	US-08-815-190A-2	Sequence 2, Appli
32	173.5	10.4	281	4	US-09-290-640-25	Sequence 25, Appl
33	173.5	10.4	281	4	US-09-479-524-3	Sequence 3, Appli
34	173.5	10.4	281	4	US-08-339-214-8	Sequence 8, Appli
35	173.5	10.4	281	4	US-08-339-214-30	Sequence 30, Appl
36	173.5	10.4	281	5	PCT-US95-00362-2	Sequence 2, Appli
37	171.5	10.2	261	1	US-07-940-605A-2	Sequence 2, Appli
38	171.5	10.2	261	1	US-08-184-422-8	Sequence 8, Appli
39	171.5	10.2	261	1	US-08-360-923A-2	Sequence 2, Appli
40	171.5	10.2	261	1	US-08-446-922-4	Sequence 4, Appli
41	171.5	10.2	261	2	US-08-431-055-4	Sequence 4, Appli
42	171.5	10.2	261	2	US-08-690-096-2	Sequence 2, Appli
43	171.5	10.2	261	2	US-08-249-189-12	Sequence 12, Appl
44	171.5	10.2	261	2	US-08-484-624A-12	Sequence 12, Appl
45	171.5	10.2	261	2	US-08-477-733B-12	Sequence 12, Appl

ALIGNMENTS

```
RESULT   1
US-08-842-842-7
; Sequence 7, Application US/08842842
; Patent No. 5843678
;  GENERAL INFORMATION:
;    APPLICANT:  Boyle, William J.
;    TITLE OF INVENTION:  OSTEOPROTEGERIN BINDING PROTEINS
;    NUMBER OF SEQUENCES:  7
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Amgen Inc.
;      STREET:  1840 Dehavilland Drive
;      CITY:  Thousand Oaks
;      STATE:  California
;      COUNTRY:  USA
;      ZIP:  91230-1789
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/842,842
;      FILING DATE:
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Winter, Robert B.
;      REFERENCE/DOCKET NUMBER:  A-451
;  INFORMATION FOR SEQ ID NO:  7:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  316 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-842-842-7


  Query Match           100.0%;  Score 1675;  DB 2;  Length 316;
  Best Local Similarity  100.0%;  Pred. No. 2.9e-157;
  Matches  316;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy       1 MRRASRDYGKYLRSSEEMGSGPGVPHEGPLHPAPSAPAPAPPPAASRSMFLALLGLGLGQ 60
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1 MRRASRDYGKYLRSSEEMGSGPGVPHEGPLHPAPSAPAPAPPPAASRSMFLALLGLGLGQ 60

Qy      61 VVCSIALFLYFRAQMDPNRISEDSTHCFYRILRLHENAGLQDSTLESEDTLPDSCRRMKQ 120
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      61 VVCSIALFLYFRAQMDPNRISEDSTHCFYRILRLHENAGLQDSTLESEDTLPDSCRRMKQ 120

Qy     121 AFQGAVQKELQHIVGPQRFSGAPAMMEGSWLDVAQRGKPEAQPFAHLTINAASIPSGSHK 180
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
```

```
Db    121 AFQGAVQKELQHIVGPQRFSGAPAMMEGSWLDVAQRGKPEAQPFAHLTINAASIPSGSHK 180

Qy    181 VTLSSWYHDRGWAKISNMTLSNGKLRVNQDGFYYLYANICFRHHETSGSVPTDYLQLMVY 240
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    181 VTLSSWYHDRGWAKISNMTLSNGKLRVNQDGFYYLYANICFRHHETSGSVPTDYLQLMVY 240

Qy    241 VVKTSIKIPSSHNLMKGGSTKNWSGNSEFHFYSINVGGFFKLRAGEEISIQVSNPSLLDP 300
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    241 VVKTSIKIPSSHNLMKGGSTKNWSGNSEFHFYSINVGGFFKLRAGEEISIQVSNPSLLDP 300

Qy    301 DQDATYFGAFKVQDID 316
          ||||||||||||||||
Db    301 DQDATYFGAFKVQDID 316


RESULT   2
US-08-989-362-2
; Sequence 2, Application US/08989362
; Patent No. 6242586
; GENERAL INFORMATION:
;   APPLICANT:  Gorman, Daniel M.
;   APPLICANT:  Mattson, Jeanine D.
;   TITLE OF INVENTION:  Mammalian Cell Surface Antigens; Related
;   TITLE OF INVENTION:  Reagents
;   NUMBER OF SEQUENCES:  2
;   CORRESPONDENCE ADDRESS:
;     ADDRESSEE:  DNAX Research Institute
;     STREET:  901 California Avenue
;     CITY:  Palo Alto
;     STATE:  California
;     COUNTRY:  USA
;     ZIP:  94304-1104
;   COMPUTER READABLE FORM:
;     MEDIUM TYPE:  Floppy disk
;     COMPUTER:  IBM PC compatible
;     OPERATING SYSTEM:  PC-DOS/MS-DOS
;     SOFTWARE:  PatentIn Release #1.0, Version #1.30
;   CURRENT APPLICATION DATA:
;     APPLICATION NUMBER:  US/08/989,362
;     FILING DATE:  12-DEC-1997
;     CLASSIFICATION:  56
;   PRIOR APPLICATION DATA:
;     APPLICATION NUMBER:  US 60/032,846
;     FILING DATE:  13-DEC-1996
;   ATTORNEY/AGENT INFORMATION:
;     NAME:  Ching, Edwin P.
;     REGISTRATION NUMBER:  34,090
;     REFERENCE/DOCKET NUMBER:  DX0686
; TELECOMMUNICATION INFORMATION:
;     TELEPHONE:  (650)852-9196
;     TELEFAX:  (650)496-1204
;  INFORMATION FOR SEQ ID NO:  2:
;   SEQUENCE CHARACTERISTICS:
;     LENGTH:  316 amino acids
;     TYPE:  amino acid
;     TOPOLOGY:  linear
;   MOLECULE TYPE:  protein
US-08-989-362-2


  Query Match             100.0%;  Score 1675;  DB 4;  Length 316;
  Best Local Similarity   100.0%;  Pred. No. 2.9e-157;
  Matches  316;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy      1 MRRASRDYGKYLRSSEEMGSGPGVPHEGPLHPAPSAPAPAPPPAASRSMFLALLGLGLGQ 60
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      1 MRRASRDYGKYLRSSEEMGSGPGVPHEGPLHPAPSAPAPAPPPAASRSMFLALLGLGLGQ 60

Qy     61 VVCSIALFLYFRAQMDPNRISEDSTHCFYRILRLHENAGLQDSTLESEDTLPDSCRRMKQ 120
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     61 VVCSIALFLYFRAQMDPNRISEDSTHCFYRILRLHENAGLQDSTLESEDTLPDSCRRMKQ 120

Qy    121 AFQGAVQKELQHIVGPQRFSGAPAMMEGSWLDVAQRGKPEAQPFAHLTINAASIPSGSHK 180
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    121 AFQGAVQKELQHIVGPQRFSGAPAMMEGSWLDVAQRGKPEAQPFAHLTINAASIPSGSHK 180

Qy    181 VTLSSWYHDRGWAKISNMTLSNGKLRVNQDGFYYLYANICFRHHETSGSVPTDYLQLMVY 240
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    181 VTLSSWYHDRGWAKISNMTLSNGKLRVNQDGFYYLYANICFRHHETSGSVPTDYLQLMVY 240

Qy    241 VVKTSIKIPSSHNLMKGGSTKNWSGNSEFHFYSINVGGFFKLRAGEEISIQVSNPSLLDP 300
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    241 VVKTSIKIPSSHNLMKGGSTKNWSGNSEFHFYSINVGGFFKLRAGEEISIQVSNPSLLDP 300

Qy    301 DQDATYFGAFKVQDID 316
          ||||||||||||||||
Db    301 DQDATYFGAFKVQDID 316


RESULT   3
US-09-052-521C-2
; Sequence 2, Application US/09052521C
; Patent No. 6316408
; GENERAL INFORMATION:
;  APPLICANT:  Boyle, William J.
;  TITLE OF INVENTION:  Osteoprotegerin Binding Proteins and Receptors
;  FILE REFERENCE:  A-451Brv
;  CURRENT APPLICATION NUMBER: US/09/052,521C
;  CURRENT FILING DATE:  1998-03-30
;  PRIOR APPLICATION NUMBER:  08/880,855
;  PRIOR FILING DATE:  1997-06-23
;  PRIOR APPLICATION NUMBER:  08/842,842
;  PRIOR FILING DATE:  1997-04-16
;  NUMBER OF SEQ ID NOS:  40
;  SOFTWARE:  PatentIn Ver. 2.1
; SEQ ID NO 2
;   LENGTH: 316
;   TYPE: PRT
;   ORGANISM: Mouse
US-09-052-521C-2


  Query Match             100.0%;  Score 1675;  DB 4;  Length 316;
  Best Local Similarity   100.0%;  Pred. No. 2.9e-157;
  Matches  316;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy      1 MRRASRDYGKYLRSSEEMGSGPGVPHEGPLHPAPSAPAPAPPPAASRSMFLALLGLGLGQ 60
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      1 MRRASRDYGKYLRSSEEMGSGPGVPHEGPLHPAPSAPAPAPPPAASRSMFLALLGLGLGQ 60

Qy     61 VVCSIALFLYFRAQMDPNRISEDSTHCFYRILRLHENAGLQDSTLESEDTLPDSCRRMKQ 120
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     61 VVCSIALFLYFRAQMDPNRISEDSTHCFYRILRLHENAGLQDSTLESEDTLPDSCRRMKQ 120

Qy    121 AFQGAVQKELQHIVGPQRFSGAPAMMEGSWLDVAQRGKPEAQPFAHLTINAASIPSGSHK 180
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    121 AFQGAVQKELQHIVGPQRFSGAPAMMEGSWLDVAQRGKPEAQPFAHLTINAASIPSGSHK 180

Qy    181 VTLSSWYHDRGWAKISNMTLSNGKLRVNQDGFYYLYANICFRHHETSGSVPTDYLQLMVY 240
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    181 VTLSSWYHDRGWAKISNMTLSNGKLRVNQDGFYYLYANICFRHHETSGSVPTDYLQLMVY 240

Qy    241 VVKTSIKIPSSHNLMKGGSTKNWSGNSEFHFYSINVGGFFKLRAGEEISIQVSNPSLLDP 300
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    241 VVKTSIKIPSSHNLMKGGSTKNWSGNSEFHFYSINVGGFFKLRAGEEISIQVSNPSLLDP 300

Qy    301 DQDATYFGAFKVQDID 316
          ||||||||||||||||
Db    301 DQDATYFGAFKVQDID 316


RESULT   4
US-08-996-139-11
; Sequence 11, Application US/08996139
; Patent No. 6017729
;  GENERAL INFORMATION:
```

```
;    APPLICANT:  Anderson, Dirk M.
;    APPLICANT:  Galibert, Laurent
;    APPLICANT:  Maraskovsky, Eugene
;    TITLE OF INVENTION:  Receptor Activator of NF-kappaB
;    NUMBER OF SEQUENCES:  19
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Immunex Corporation, Law Department
;      STREET:  51 University Street
;      CITY:  Seattle
;      STATE:  WA
;      COUNTRY:  USA
;      ZIP:  98101
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  Apple Power Macintosh
;      OPERATING SYSTEM:  Apple Operating System 7.5.5
;      SOFTWARE:  Microsoft Word for Power Macintosh 6.0.1
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/996,139
;      FILING DATE:  22 DECEMBER 1997
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  USSN 60/064,671
;      FILING DATE:  14 OCTOBER 1997
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  USSN 08/813,509
;      FILING DATE:  07 MARCH 1997
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  USSN 08/772,330
;      FILING DATE:  23 DECEMBER 1996
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Perkins, Patricia Anne
;      REGISTRATION NUMBER:  34,693
;      REFERENCE/DOCKET NUMBER:  2851-A
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (206)587-0430
;      TELEFAX:  (206)233-0644
;  INFORMATION FOR SEQ ID NO:  11:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  294 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-996-139-11


  Query Match             92.8%;  Score 1554;  DB 3;  Length 294;
  Best Local Similarity   99.7%;  Pred. No. 2.3e-145;
  Matches  293;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy      23 GVPHEGPLHPAPSAPAPAPPPAASRSMFLALLGLGLGQVVCSIALFLYFRAQMDPNRISE 82
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1 GVPHEGPLHPAPSAPAPAPPPAASRSMFLALLGLGLGQVVCSIALFLYFRAQMDPNRISE 60

Qy      83 DSTHCFYRILRLHENAGLQDSTLESEDTLPDSCRRMKQAFQGAVQKELQHIVGPQRFSGA 142
           |||||||||||||||| ||||||||||||||||||||||||||||||||||||||||||||
Db      61 DSTHCFYRILRLHENADLQDSTLESEDTLPDSCRRMKQAFQGAVQKELQHIVGPQRFSGA 120

Qy     143 PAMMEGSWLDVAQRGKPEAQPFAHLTINAASIPSGSHKVTLSSWYHDRGWAKISNMTLSN 202
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     121 PAMMEGSWLDVAQRGKPEAQPFAHLTINAASIPSGSHKVTLSSWYHDRGWAKISNMTLSN 180

Qy     203 GKLRVNQDGFYYLYANICFRHHETSGSVPTDYLQLMVYVVKTSIKIPSSHNLMKGGSTKN 262
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     181 GKLRVNQDGFYYLYANICFRHHETSGSVPTDYLQLMVYVVKTSIKIPSSHNLMKGGSTKN 240

Qy     263 WSGNSEFHFYSINVGGFFKLRAGEEISIQVSNPSLLDPDQDATYFGAFKVQDID 316
           |||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     241 WSGNSEFHFYSINVGGFFKLRAGEEISIQVSNPSLLDPDQDATYFGAFKVQDID 294


RESULT   5
US-08-995-659-11
; Sequence 11, Application US/08995659
; Patent No. 6242213
; GENERAL INFORMATION:
;    APPLICANT:  Anderson, Dirk M.
;    APPLICANT:  Galibert, Laurent
;    APPLICANT:  Maraskovsky, Eugene
;    TITLE OF INVENTION:  Ligand for Receptor Activator of NF-kappaB
;    NUMBER OF SEQUENCES:  19
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Immunex Corporation, Law Department
;      STREET:  51 University Street
;      CITY:  Seattle
;      STATE:  WA
;      COUNTRY:  USA
;      ZIP:  98101
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  Apple Power Macintosh
;      OPERATING SYSTEM:  Apple Operating System 7.5.5
;      SOFTWARE:  Microsoft Word for Power Macintosh 6.0.1
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/995,659
;      FILING DATE:  22 DECEMBER 1997
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  USSN 60/064,671
;      FILING DATE:  14 OCTOBER 1997
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  USSN 08/813,509
;      FILING DATE:  07 MARCH 1997
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  USSN 08/772,330
;      FILING DATE:  23 DECEMBER 1996
;      CLASSIFICATION:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Perkins, Patricia Anne
;      REGISTRATION NUMBER:  34,693
;      REFERENCE/DOCKET NUMBER:  2852-A
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (206)587-0430
;      TELEFAX:  (206)233-0644
;  INFORMATION FOR SEQ ID NO:  11:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  294 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-995-659-11


  Query Match             92.8%;  Score 1554;  DB 4;  Length 294;
  Best Local Similarity   99.7%;  Pred. No. 2.3e-145;
  Matches  293;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy      23 GVPHEGPLHPAPSAPAPAPPPAASRSMFLALLGLGLGQVVCSIALFLYFRAQMDPNRISE 82
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1 GVPHEGPLHPAPSAPAPAPPPAASRSMFLALLGLGLGQVVCSIALFLYFRAQMDPNRISE 60

Qy      83 DSTHCFYRILRLHENAGLQDSTLESEDTLPDSCRRMKQAFQGAVQKELQHIVGPQRFSGA 142
           |||||||||||||||| ||||||||||||||||||||||||||||||||||||||||||||
Db      61 DSTHCFYRILRLHENADLQDSTLESEDTLPDSCRRMKQAFQGAVQKELQHIVGPQRFSGA 120

Qy     143 PAMMEGSWLDVAQRGKPEAQPFAHLTINAASIPSGSHKVTLSSWYHDRGWAKISNMTLSN 202
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     121 PAMMEGSWLDVAQRGKPEAQPFAHLTINAASIPSGSHKVTLSSWYHDRGWAKISNMTLSN 180

Qy     203 GKLRVNQDGFYYLYANICFRHHETSGSVPTDYLQLMVYVVKTSIKIPSSHNLMKGGSTKN 262
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     181 GKLRVNQDGFYYLYANICFRHHETSGSVPTDYLQLMVYVVKTSIKIPSSHNLMKGGSTKN 240

Qy     263 WSGNSEFHFYSINVGGFFKLRAGEEISIQVSNPSLLDPDQDATYFGAFKVQDID 316
```

```
                  ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    241 WSGNSEFHFYSINVGGFFKLRAGEEISIQVSNPSLLDPDQDATYFGAFKVQDID 294


RESULT   6
US-09-215-649A-11
; Sequence 11, Application US/09215649A
; Patent No. 6271349
;   GENERAL INFORMATION:
;        APPLICANT: Anderson, Dirk M.
;                   Galibert, Laurent
;                   Maraskovsky, Eugene
;        TITLE OF INVENTION: Receptor Activator of NF-kappaB
;        NUMBER OF SEQUENCES: 19
;        CORRESPONDENCE ADDRESS:
;             ADDRESSEE: Immunex Corporation, Law Department
;             STREET: 51 University Street
;             CITY: Seattle
;             STATE: WA
;             COUNTRY: USA
;             ZIP: 98101
;        COMPUTER READABLE FORM:
;             MEDIUM TYPE: Floppy disk
;             COMPUTER: Apple Power Macintosh
;             OPERATING SYSTEM: Apple Operating System 7.5.5
;             SOFTWARE: Microsoft Word for Power Macintosh 6.0.1
;        CURRENT APPLICATION DATA:
;             APPLICATION NUMBER: US/09/215,649A
;             FILING DATE: 17-Dec-1998
;             CLASSIFICATION: <Unknown>
;        PRIOR APPLICATION DATA:
;             APPLICATION NUMBER: 08/996,139
;             FILING DATE: <Unknown>
;             APPLICATION NUMBER: USSN 08/813,509
;             FILING DATE: 07 MARCH 1997
;             APPLICATION NUMBER: USSN 08/772,330
;             FILING DATE: 23 DECEMBER 1996
;        ATTORNEY/AGENT INFORMATION:
;             NAME: Perkins, Patricia Anne
;             REGISTRATION NUMBER: 34,693
;             REFERENCE/DOCKET NUMBER: 2851-A
;        TELECOMMUNICATION INFORMATION:
;             TELEPHONE: (206)587-0430
;             TELEFAX: (206)233-0644
;   INFORMATION FOR SEQ ID NO: 11:
;        SEQUENCE CHARACTERISTICS:
;             LENGTH: 294 amino acids
;             TYPE: amino acid
;             TOPOLOGY: linear
;        MOLECULE TYPE: protein
;        SEQUENCE DESCRIPTION: SEQ ID NO: 11:
US-09-215-649A-11


  Query Match             92.8%;  Score 1554;  DB 4;  Length 294;
  Best Local Similarity   99.7%;  Pred. No. 2.3e-145;
  Matches  293;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy      23 GVPHEGPLHPAPSAPAPAPPPAASRSMFLALLGLGLGQVVCSIALFLYFRAQMDPNRISE 82
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1 GVPHEGPLHPAPSAPAPAPPPAASRSMFLALLGLGLGQVVCSIALFLYFRAQMDPNRISE 60

Qy      83 DSTHCFYRILRLHENAGLQDSTLESEDTLPDSCRRMKQAFQGAVQKELQHIVGPQRFSGA 142
           ||||||||||||||| |||||||||||||||||||||||||||||||||||||||||||||
Db      61 DSTHCFYRILRLHENADLQDSTLESEDTLPDSCRRMKQAFQGAVQKELQHIVGPQRFSGA 120

Qy     143 PAMMEGSWLDVAQRGKPEAQPFAHLTINAASIPSGSHKVTLSSWYHDRGWAKISNMTLSN 202
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     121 PAMMEGSWLDVAQRGKPEAQPFAHLTINAASIPSGSHKVTLSSWYHDRGWAKISNMTLSN 180

Qy     203 GKLRVNQDGFYYLYANICFRHHETSGSVPTDYLQLMVYVVKTSIKIPSSHNLMKGGSTKN 262
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     181 GKLRVNQDGFYYLYANICFRHHETSGSVPTDYLQLMVYVVKTSIKIPSSHNLMKGGSTKN 240

Qy     263 WSGNSEFHFYSINVGGFFKLRAGEEISIQVSNPSLLDPDQDATYFGAFKVQDID 316
           |||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     241 WSGNSEFHFYSINVGGFFKLRAGEEISIQVSNPSLLDPDQDATYFGAFKVQDID 294


RESULT   7
US-08-996-139-13
; Sequence 13, Application US/08996139
; Patent No. 6017729
;  GENERAL INFORMATION:
;    APPLICANT:  Anderson, Dirk M.
;    APPLICANT:  Galibert, Laurent
;    APPLICANT:  Maraskovsky, Eugene
;    TITLE OF INVENTION:  Receptor Activator of NF-kappaB
;    NUMBER OF SEQUENCES:  19
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Immunex Corporation, Law Department
;      STREET:  51 University Street
;      CITY:  Seattle
;      STATE:  WA
;      COUNTRY:  USA
;      ZIP:  98101
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  Apple Power Macintosh
;      OPERATING SYSTEM:  Apple Operating System 7.5.5
;      SOFTWARE:  Microsoft Word for Power Macintosh 6.0.1
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/996,139
;      FILING DATE:  22 DECEMBER 1997
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  USSN 60/064,671
;      FILING DATE:  14 OCTOBER 1997
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  USSN 08/813,509
;      FILING DATE:  07 MARCH 1997
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  USSN 08/772,330
;      FILING DATE:  23 DECEMBER 1996
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Perkins, Patricia Anne
;      REGISTRATION NUMBER:  34,693
;      REFERENCE/DOCKET NUMBER:  2851-A
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (206)587-0430
;      TELEFAX:  (206)233-0644
;  INFORMATION FOR SEQ ID NO:  13:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  317 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-996-139-13


  Query Match             84.6%;  Score 1417.5;  DB 3;  Length 317;
  Best Local Similarity   84.3%;  Pred. No. 7.4e-132;
  Matches  268;  Conservative   16;  Mismatches   31;  Indels    3;  Gaps    2;

Qy       1 MRRASRDYGKYLRSSEEMGSGPGVPHEGPLHPAPSAPAPAPPPAASRSMFLALLGLGLGQ 60
           |||||||| |||| ||||| ||| ||||||| ||  |||  |||||||||:|||||||||
Db       1 MRRASRDYTKYLRGSEEMGGGPGAPHEGPLH-APPPPAPHQPPAASRSMFVALLGLGLGQ 59

Qy      61 VVCSIALFLYFRAQMDPNRISEDSTHCFYRILRLHENAGLQDSTLESEDT--LPDSCRRM 118
           ||||:||| |||||||||||||| ||| |||||||||  ||:||||:||  :|||||:
Db      60 VVCSVALFFYFRAQMDPNRISEDGTHCIYRILRLHENADFQDTTLESQDTKLIPDSCRRI 119

Qy     119 KQAFQGAVQKELQHIVGPQRFSGAPAMMEGSWLDVAQRGKPEAQPFAHLTINAASIPSGS 178
           |||||||||||||||| |      ||::|||||:|:| | ||||||||||  |||||
Db     120 KQAFQGAVQKELQHIVGSQHIRAEKAMVDGSWLDLAKRSKLEAQPFAHLTINATDIPSGS 179
```

```
Qy     179 HKVTLSSWYHDRGWAKISNMTLSNGKLRVNQDGFYYLYANICFRHHETSGSVPTDYLQLM 238
           |||:||||||||||||||||| ||||| |||||||||||||||||||||| : |:|||||
Db     180 HKVSLSSWYHDRGWAKISNMTFSNGKLIVNQDGFYYLYANICFRHHETSGDLATEYLQLM 239

Qy     239 VYVVKTSIKIPSSHNLMKGGSTKNWSGNSEFHFYSINVGGFFKLRAGEEISIQVSNPSLL 298
           ||| |||||||||| ||||||| ||||||||||||||||||||:||||||:|||||||
Db     240 VYVTKTSIKIPSSHTLMKGGSTKYWSGNSEFHFYSINVGGFFKLRSGEEISIEVSNPSLL 299

Qy     299 DPDQDATYFGAFKVQDID 316
           |||||||||||||:|||
Db     300 DPDQDATYFGAFKVRDID 317


RESULT   8
US-08-995-659-13
; Sequence 13, Application US/08995659
; Patent No. 6242213
;  GENERAL INFORMATION:
;    APPLICANT:  Anderson, Dirk M.
;    APPLICANT:  Galibert, Laurent
;    APPLICANT:  Maraskovsky, Eugene
;    TITLE OF INVENTION:  Ligand for Receptor Activator of NF-kappaB
;    NUMBER OF SEQUENCES:  19
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Immunex Corporation, Law Department
;      STREET:  51 University Street
;      CITY:  Seattle
;      STATE:  WA
;      COUNTRY:  USA
;      ZIP:  98101
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  Apple Power Macintosh
;      OPERATING SYSTEM:  Apple Operating System 7.5.5
;      SOFTWARE:  Microsoft Word for Power Macintosh 6.0.1
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/995,659
;      FILING DATE:  22 DECEMBER 1997
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  USSN 60/064,671
;      FILING DATE:  14 OCTOBER 1997
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  USSN 08/813,509
;      FILING DATE:  07 MARCH 1997
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  USSN 08/772,330
;      FILING DATE:  23 DECEMBER 1996
;      CLASSIFICATION:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Perkins, Patricia Anne
;      REGISTRATION NUMBER:  34,693
;      REFERENCE/DOCKET NUMBER:  2852-A
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (206)587-0430
;      TELEFAX:  (206)233-0644
;  INFORMATION FOR SEQ ID NO:  13:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  317 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-995-659-13


  Query Match             84.6%;  Score 1417.5;  DB 4;  Length 317;
  Best Local Similarity   84.3%;  Pred. No. 7.4e-132;
  Matches  268;  Conservative   16;  Mismatches   31;  Indels    3;  Gaps    2;

Qy       1 MRRASRDYGKYLRSSEEMGSGPGVPHEGPLHPAPSAPAPAPPPAASRSMFLALLGLGLGQ 60
           |||||||| |||| ||||| ||| ||||||| ||  |||  |||||||||:|||||||||

Db       1 MRRASRDYTKYLRGSEEMGGGPGAPHEGPLH-APPPPAPHQPPAASRSMFVALLGLGLGQ 59

Qy      61 VVCSIALFLYFRAQMDPNRISEDSTHCFYRILRLHENAGLQDSTLESEDT--LPDSCRRM 118
           ||||:||| |||||||||||||| ||| |||||||||  ||:||||:||  :|||||||:
Db      60 VVCSVALFFYFRAQMDPNRISEDGTHCIYRILRLHENADFQDTTLESQDTKLIPDSCRRI 119

Qy     119 KQAFQGAVQKELQHIVGPQRFSGAPAMMEGSWLDVAQRGKPEAQPFAHLTINAASIPSGS 178
           |||||||||||||||| |      ||::|||||:|:| | |||||||||||  |||||
Db     120 KQAFQGAVQKELQHIVGSQHIRAEKAMVDGSWLDLAKRSKLEAQPFAHLTINATDIPSGS 179

Qy     179 HKVTLSSWYHDRGWAKISNMTLSNGKLRVNQDGFYYLYANICFRHHETSGSVPTDYLQLM 238
           |||:||||||||||||||||| ||||| |||||||||||||||||||||| : |:|||||
Db     180 HKVSLSSWYHDRGWAKISNMTFSNGKLIVNQDGFYYLYANICFRHHETSGDLATEYLQLM 239

Qy     239 VYVVKTSIKIPSSHNLMKGGSTKNWSGNSEFHFYSINVGGFFKLRAGEEISIQVSNPSLL 298
           ||| |||||||||| ||||||| ||||||||||||||||||||:||||||:|||||||
Db     240 VYVTKTSIKIPSSHTLMKGGSTKYWSGNSEFHFYSINVGGFFKLRSGEEISIEVSNPSLL 299

Qy     299 DPDQDATYFGAFKVQDID 316
           |||||||||||||:|||
Db     300 DPDQDATYFGAFKVRDID 317


RESULT   9
US-09-215-649A-13
; Sequence 13, Application US/09215649A
; Patent No. 6271349
;   GENERAL INFORMATION:
;        APPLICANT: Anderson, Dirk M.
;                   Galibert, Laurent
;                   Maraskovsky, Eugene
;        TITLE OF INVENTION: Receptor Activator of NF-kappaB
;        NUMBER OF SEQUENCES: 19
;        CORRESPONDENCE ADDRESS:
;             ADDRESSEE: Immunex Corporation, Law Department
;             STREET: 51 University Street
;             CITY: Seattle
;             STATE: WA
;             COUNTRY: USA
;             ZIP: 98101
;        COMPUTER READABLE FORM:
;             MEDIUM TYPE: Floppy disk
;             COMPUTER: Apple Power Macintosh
;             OPERATING SYSTEM: Apple Operating System 7.5.5
;             SOFTWARE: Microsoft Word for Power Macintosh 6.0.1
;        CURRENT APPLICATION DATA:
;             APPLICATION NUMBER: US/09/215,649A
;             FILING DATE: 17-Dec-1998
;             CLASSIFICATION: <Unknown>
;        PRIOR APPLICATION DATA:
;             APPLICATION NUMBER: 08/996,139
;             FILING DATE: <Unknown>
;             APPLICATION NUMBER: USSN 08/813,509
;             FILING DATE: 07 MARCH 1997
;             APPLICATION NUMBER: USSN 08/772,330
;             FILING DATE: 23 DECEMBER 1996
;        ATTORNEY/AGENT INFORMATION:
;             NAME: Perkins, Patricia Anne
;             REGISTRATION NUMBER: 34,693
;             REFERENCE/DOCKET NUMBER: 2851-A
;        TELECOMMUNICATION INFORMATION:
;             TELEPHONE: (206)587-0430
;             TELEFAX: (206)233-0644
;   INFORMATION FOR SEQ ID NO: 13:
;        SEQUENCE CHARACTERISTICS:
;             LENGTH: 317 amino acids
;             TYPE: amino acid
;             TOPOLOGY: linear
;        MOLECULE TYPE: protein
;        SEQUENCE DESCRIPTION: SEQ ID NO: 13:
US-09-215-649A-13
```

```
  Query Match             84.6%;  Score 1417.5;  DB 4;  Length 317;
  Best Local Similarity   84.3%;  Pred. No. 7.4e-132;
  Matches  268;  Conservative   16;  Mismatches   31;  Indels    3;  Gaps    2;

Qy       1 MRRASRDYGKYLRSSEEMGSGPGVPHEGPLHPAPSAPAPAPPPAASRSMFLALLGLGLGQ 60
           |||||||| |||| ||||| ||| ||||||| ||  |||  |||||||||:|||||||||
Db       1 MRRASRDYTKYLRGSEEMGGGPGAPHEGPLH-APPPPAPHQPPAASRSMFVALLGLGLGQ 59

Qy      61 VVCSIALFLYFRAQMDPNRISEDSTHCFYRILRLHENAGLQDSTLESEDT--LPDSCRRM 118
           ||||:||| |||||||||||||| ||| |||||||||  ||:||||:||  :||||||:
Db      60 VVCSVALFFYFRAQMDPNRISEDGTHCIYRILRLHENADFQDTTLESQDTKLIPDSCRRI 119

Qy     119 KQAFQGAVQKELQHIVGPQRFSGAPAMMEGSWLDVAQRGKPEAQPFAHLTINAASIPSGS 178
           |||||||||||||||| |      ||::|||||:|:| | ||||||||||  |||||
Db     120 KQAFQGAVQKELQHIVGSQHIRAEKAMVDGSWLDLAKRSKLEAQPFAHLTINATDIPSGS 179

Qy     179 HKVTLSSWYHDRGWAKISNMTLSNGKLRVNQDGFYYLYANICFRHHETSGSVPTDYLQLM 238
           |||:||||||||||||||| ||||| |||||||||||||||||||| : |:|||||
Db     180 HKVSLSSWYHDRGWAKISNMTFSNGKLIVNQDGFYYLYANICFRHHETSGDLATEYLQLM 239

Qy     239 VYVVKTSIKIPSSHNLMKGGSTKNWSGNSEFHFYSINVGGFFKLRAGEEISIQVSNPSLL 298
           ||| |||||||||| |||||||| ||||||||||||||||||:||||||:|||||||
Db     240 VYVTKTSIKIPSSHTLMKGGSTKYWSGNSEFHFYSINVGGFFKLRSGEEISIEVSNPSLL 299

Qy     299 DPDQDATYFGAFKVQDID 316
           |||||||||||||:|||
Db     300 DPDQDATYFGAFKVRDID 317


RESULT  10
US-09-052-521C-4
; Sequence 4, Application US/09052521C
; Patent No. 6316408
; GENERAL INFORMATION:
;  APPLICANT:  Boyle, William J.
;  TITLE OF INVENTION:  Osteoprotegerin Binding Proteins and Receptors
;  FILE REFERENCE:  A-451Brv
;  CURRENT APPLICATION NUMBER: US/09/052,521C
;  CURRENT FILING DATE:  1998-03-30
;  PRIOR APPLICATION NUMBER:  08/880,855
;  PRIOR FILING DATE:  1997-06-23
;  PRIOR APPLICATION NUMBER:  08/842,842
;  PRIOR FILING DATE:  1997-04-16
;  NUMBER OF SEQ ID NOS:  40
;  SOFTWARE:  PatentIn Ver. 2.1
; SEQ ID NO 4
;   LENGTH: 317
;   TYPE: PRT
;   ORGANISM: Human
US-09-052-521C-4


  Query Match             84.6%;  Score 1417.5;  DB 4;  Length 317;
  Best Local Similarity   84.3%;  Pred. No. 7.4e-132;
  Matches  268;  Conservative   16;  Mismatches   31;  Indels    3;  Gaps    2;

Qy       1 MRRASRDYGKYLRSSEEMGSGPGVPHEGPLHPAPSAPAPAPPPAASRSMFLALLGLGLGQ 60
           |||||||| |||| ||||| ||| ||||||| ||  |||  |||||||||:|||||||||
Db       1 MRRASRDYTKYLRGSEEMGGGPGAPHEGPLH-APPPPAPHQPPAASRSMFVALLGLGLGQ 59

Qy      61 VVCSIALFLYFRAQMDPNRISEDSTHCFYRILRLHENAGLQDSTLESEDT--LPDSCRRM 118
           ||||:||| |||||||||||||| ||| |||||||||  ||:||||:||  :||||||:
Db      60 VVCSVALFFYFRAQMDPNRISEDGTHCIYRILRLHENADFQDTTLESQDTKLIPDSCRRI 119

Qy     119 KQAFQGAVQKELQHIVGPQRFSGAPAMMEGSWLDVAQRGKPEAQPFAHLTINAASIPSGS 178
           |||||||||||||||| |      ||::|||||:|:| | ||||||||||  |||||
Db     120 KQAFQGAVQKELQHIVGSQHIRAEKAMVDGSWLDLAKRSKLEAQPFAHLTINATDIPSGS 179

Qy     179 HKVTLSSWYHDRGWAKISNMTLSNGKLRVNQDGFYYLYANICFRHHETSGSVPTDYLQLM 238
           |||:||||||||||||||| ||||| |||||||||||||||||||| : |:|||||
Db     180 HKVSLSSWYHDRGWAKISNMTFSNGKLIVNQDGFYYLYANICFRHHETSGDLATEYLQLM 239

Qy     239 VYVVKTSIKIPSSHNLMKGGSTKNWSGNSEFHFYSINVGGFFKLRAGEEISIQVSNPSLL 298
           ||| |||||||||| |||||||| ||||||||||||||||||:||||||:|||||||
Db     240 VYVTKTSIKIPSSHTLMKGGSTKYWSGNSEFHFYSINVGGFFKLRSGEEISIEVSNPSLL 299

Qy     299 DPDQDATYFGAFKVQDID 316
           |||||||||||||:|||
Db     300 DPDQDATYFGAFKVRDID 317


RESULT  11
US-09-072-993C-3
; Sequence 3, Application US/09072993C
; Patent No. 6346388
; GENERAL INFORMATION:
;  APPLICANT: Michael R. Brigham-Burke
;  APPLICANT:  Peter R. Young
;  TITLE OF INVENTION: A METHOD OF IDENTIFYING AGONIST AND
;  TITLE OF INVENTION:  ANTAGONISTS FOR TUMOR NECROSIS RELATED RECEPTORS TR1 AND TR2
;  FILE REFERENCE: GH-50030
;  CURRENT APPLICATION NUMBER: US/09/072,993C
;  CURRENT FILING DATE:  1998-05-06
;  PRIOR APPLICATION NUMBER: 60/055,513
;  PRIOR FILING DATE: 1997-08-13
;  PRIOR APPLICATION NUMBER: 60/056,980
;  PRIOR FILING DATE: 1997-08-26
;  PRIOR APPLICATION NUMBER: 60/057,550
;  PRIOR FILING DATE: 1997-08-29
;  NUMBER OF SEQ ID NOS: 9
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 3
;   LENGTH: 279
;   TYPE: PRT
;   ORGANISM: HOMO SAPIENS
US-09-072-993C-3


  Query Match             15.4%;  Score 258.5;  DB 4;  Length 279;
  Best Local Similarity   26.4%;  Pred. No. 1.3e-17;
  Matches   78;  Conservative   54;  Mismatches  113;  Indels   51;  Gaps   10;

Qy      43 PAASRSMFLALLGLGLGQVVCSIALFLYFRAQMD--PNRISEDSTHCFYRILRLHENAGL 100
           |:  ::  | ::   | | :|    ::||  ::    :: |:    ||     | |:
Db       8 PSLGQTCVLIVIFTVLLQSLCVAVTYVYFTNELKQMQDKYSKSGIACF-----LKEDDSY 62

Qy     101 QDSTLESEDTLPDSCRRMKQAFQGAVQK-------------ELQHIVGPQRFSGAPAMM 146
             |    |:::   | ::|   :  |:|              | |  : |
Db      63 WDP--NDEESMNSPCWQVKWQLRQLVRKMILRTSEETISTVQEKQQNISPL--------- 111

Qy     147 EGSWLDVAQRGKPEAQPFAHLT-----INAASIPSGSHKVTL----SSWYHDR-GWAKIS 196
                | :||       ||:|      |  | |:  ::  |    :||   | | : :|
Db     112 ------VRERGPQRVA--AHITGTRGRSNTLSSPNSKNEKALGRKINSWESSRSGHSFLS 163

Qy     197 NMTLSNGKLRVNQDGFYYLYANICFRHHETSGSVPTDYLQLMVYVVKTSIKIPSSHNLMK 256
           |: | ||:| ::: ||||:|:   ||  |       :  |:: |: | :   |    |||
Db     164 NLHLRNGELVIHEKGFYYIYSQTYFRFQEEIKENTKNDKQMVQYIYKYT-SYPDPILLMK 222

Qy     257 GGSTKNWSGNSEFHFYSINVGGFFKLRAGEEISIQVSNPSLLDPDQDATYFGAFKV 312
               || ::|:  |||  || |:|:  : | : |:|  |:| | :|::|||| |
Db     223 SARNSCWSKDAEYGLYSIYQGGIFELKENDRIFVSVTNEHLIDMDHEASFFGAFLV 278


RESULT  12
US-08-670-354-2
; Sequence 2, Application US/08670354
; Patent No. 5763223
; GENERAL INFORMATION:
;    APPLICANT:  Steven R. Wiley and
;    APPLICANT:  Raymond G. Goodwin.
;    TITLE OF INVENTION:  Cytokine That Induces Apoptosis
;    NUMBER OF SEQUENCES:  9
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Kathryn A. Anderson, Immunex Corporation
;      STREET:  51 University Street
;      CITY:  Seattle
```

```
;       STATE:  WA
;       COUNTRY:  USA
;       ZIP:  98101
;     COMPUTER READABLE FORM:
;       MEDIUM TYPE:  Floppy disk
;       COMPUTER:  Apple Macintosh
;       OPERATING SYSTEM:  Apple 7.5.2
;       SOFTWARE:  Microsoft Word, Version 6.0.1
;     CURRENT APPLICATION DATA:
;       APPLICATION NUMBER:  US/08/670,354
;       FILING DATE:  25-JUN-1996
;       CLASSIFICATION:  435
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  US 08/496,632
;       FILING DATE:  29-JUN-1995
;       CLASSIFICATION:  435
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  US 08/548,368
;       FILING DATE:  01-NOV-1995
;       CLASSIFICATION:  435
;     ATTORNEY/AGENT INFORMATION:
;       NAME:  Anderson, Kathryn A.
;       REGISTRATION NUMBER:  32,172
;       REFERENCE/DOCKET NUMBER:  2835-B
;     TELECOMMUNICATION INFORMATION:
;       TELEPHONE:  (206) 587-0430
;       TELEFAX:  (206) 233-0644
;       TELEX:  756822
;   INFORMATION FOR SEQ ID NO:  2:
;     SEQUENCE CHARACTERISTICS:
;       LENGTH:  281 amino acids
;       TYPE:  amino acid
;       TOPOLOGY:  linear
;     MOLECULE TYPE:  protein
US-08-670-354-2


  Query Match             15.4%;  Score 258.5;  DB 1;  Length 281;
  Best Local Similarity   26.4%;  Pred. No. 1.4e-17;
  Matches   78;  Conservative   54;  Mismatches  113;  Indels   51;  Gaps   10;

Qy      43 PAASRSMFLALLGLGLGQVVCSIALFLYFRAQMD--PNRISEDSTHCFYRILRLHENAGL 100
           |:  ::  | ::   | | :|    ::||  ::    :: |:    ||     | |:
Db      10 PSLGQTCVLIVIFTVLLQSLCVAVTYVYFTNELKQMQDKYSKSGIACF-----LKEDDSY 64

Qy     101 QDSTLESEDTLPDSCRRMKQAFQGAVQK-------------ELQHIVGPQRFSGAPAMM 146
           |     |:::   | ::|   :  |:|               | |  : |
Db      65 WDP--NDEESMNSPCWQVKWQLRQLVRKMILRTSEETISTVQEKQQNISPL--------- 113

Qy     147 EGSWLDVAQRGKPEAQPFAHLT-----INAASIPSGSHKVTL----SSWYHDR-GWAKIS 196
           | :||       ||:|      |  | |:  ::  |    :||   | | : :|
Db     114 ------VRERGPQRVA--AHITGTRGRSNTLSSPNSKNEKALGRKINSWESSRSGHSFLS 165

Qy     197 NMTLSNGKLRVNQDGFYYLYANICFRHHETSGSVPTDYLQLMVYVVKTSIKIPSSHNLMK 256
           |: | ||:| ::: ||||:|:   ||  |       :  |:: |: | :   |    |||
Db     166 NLHLRNGELVIHEKGFYYIYSQTYFRFQEEIKENTKNDKQMVQYIYKYT-SYPDPILLMK 224

Qy     257 GGSTKNWSGNSEFHFYSINVGGFFKLRAGEEISIQVSNPSLLDPDQDATYFGAFKV 312
              || ::|:  |||  || |:|:  : | : |:|  |:| | :|::|||| |
Db     225 SARNSCWSKDAEYGLYSIYQGGIFELKENDRIFVSVTNEHLIDMDHEASFFGAFLV 280


RESULT  13
US-08-584-031-1
; Sequence 1, Application US/08584031A
; Patent No. 6030945
; GENERAL INFORMATION:
;  APPLICANT: Ashkenazi, Avi J.
;  TITLE OF INVENTION: APO-2 LIGAND
;  FILE REFERENCE: 11669.22US03
;  CURRENT APPLICATION NUMBER: US/08/584,031A
;  CURRENT FILING DATE: 1996-01-09
;  NUMBER OF SEQ ID NOS: 17
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1
;   LENGTH: 281
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-08-584-031-1


  Query Match             15.4%;  Score 258.5;  DB 3;  Length 281;
  Best Local Similarity   26.4%;  Pred. No. 1.4e-17;
  Matches   78;  Conservative   54;  Mismatches  113;  Indels   51;  Gaps   10;

Qy      43 PAASRSMFLALLGLGLGQVVCSIALFLYFRAQMD--PNRISEDSTHCFYRILRLHENAGL 100
           |:  ::  | ::   | | :|    ::||  ::    :: |:    ||     | |:
Db      10 PSLGQTCVLIVIFTVLLQSLCVAVTYVYFTNELKQMQDKYSKSGIACF-----LKEDDSY 64

Qy     101 QDSTLESEDTLPDSCRRMKQAFQGAVQK-------------ELQHIVGPQRFSGAPAMM 146
           |     |:::   | ::|   :  |:|               | |  : |
Db      65 WDP--NDEESMNSPCWQVKWQLRQLVRKMILRTSEETISTVQEKQQNISPL--------- 113

Qy     147 EGSWLDVAQRGKPEAQPFAHLT-----INAASIPSGSHKVTL----SSWYHDR-GWAKIS 196
           | :||       ||:|      |  | |:  ::  |    :||   | | : :|
Db     114 ------VRERGPQRVA--AHITGTRGRSNTLSSPNSKNEKALGRKINSWESSRSGHSFLS 165

Qy     197 NMTLSNGKLRVNQDGFYYLYANICFRHHETSGSVPTDYLQLMVYVVKTSIKIPSSHNLMK 256
           |: | ||:| ::: ||||:|:   ||  |       :  |:: |: | :   |    |||
Db     166 NLHLRNGELVIHEKGFYYIYSQTYFRFQEEIKENTKNDKQMVQYIYKYT-SYPDPILLMK 224

Qy     257 GGSTKNWSGNSEFHFYSINVGGFFKLRAGEEISIQVSNPSLLDPDQDATYFGAFKV 312
              || ::|:  |||  || |:|:  : | : |:|  |:| | :|::|||| |
Db     225 SARNSCWSKDAEYGLYSIYQGGIFELKENDRIFVSVTNEHLIDMDHEASFFGAFLV 280


RESULT  14
US-08-780-496-1
; Sequence 1, Application US/08780496
; Patent No. 6046048
;  GENERAL INFORMATION:
;    APPLICANT:  Avi Ashkenazi, Anan Chuntharapai, Kyung Jin Kim
;    TITLE OF INVENTION:  Apo-2 Ligand
;    NUMBER OF SEQUENCES:  8
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Genentech, Inc.
;      STREET:  460 Point San Bruno Blvd
;      CITY:  South San Francisco
;      STATE:  California
;      COUNTRY:  USA
;      ZIP:  94080
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  3.5 inch, 1.44 Mb floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  WinPatin (Genentech)
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/780,496
;      FILING DATE:  08-Jan-1997
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Marschang, Diane L.
;      REGISTRATION NUMBER:  35,600
;      REFERENCE/DOCKET NUMBER:  P0978P1
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  415/225-5416
;      TELEFAX:  415/952-9881
;      TELEX:  910/371-7168
;  INFORMATION FOR SEQ ID NO:  1:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  281 amino acids
;      TYPE:  Amino Acid
;      TOPOLOGY:  Linear
US-08-780-496-1
```

```
  Query Match           15.4%;  Score 258.5;  DB 3;  Length 281;
  Best Local Similarity  26.4%;  Pred. No. 1.4e-17;
  Matches   78;  Conservative   54;  Mismatches  113;  Indels   51;  Gaps   10;

Qy      43 PAASRSMFLALLGLGLGQVVCSIALFLYFRAQMD--PNRISEDSTHCFYRILRLHENAGL 100
           |:  ::  | ::   | | :|    ::||  ::    :: |:    ||     | |:
Db      10 PSLGQTCVLIVIFTVLLQSLCVAVTYVYFTNELKQMQDKYSKSGIACF-----LKEDDSY 64

Qy     101 QDSTLESEDTLPDSCRRMKQAFQGAVQK-------------ELQHIVGPQRFSGAPAMM 146
            |     |:::   | ::|   :  |:|              | |  : |
Db      65 WDP--NDEESMNSPCWQVKWQLRQLVRKMILRTSEETISTVQEKQQNISPL--------- 113

Qy     147 EGSWLDVAQRGKPEAQPFAHLT-----INAASIPSGSHKVTL----SSWYHDR-GWAKIS 196
               | :||       ||:|      |  | |:  ::  |    :||   | | : :|
Db     114 ------VRERGPQRVA--AHITGTRGRSNTLSSPNSKNEKALGRKINSWESSRSGHSFLS 165

Qy     197 NMTLSNGKLRVNQDGFYYLYANICFRHHETSGSVPTDYLQLMVYVVKTSIKIPSSHNLMK 256
           |: | ||:| ::: ||||:|:   ||  |       :  |:: |: | :   |    |||
Db     166 NLHLRNGELVIHEKGFYYIYSQTYFRFQEEIKENTKNDKQMVQYIYKYT-SYPDPILLMK 224

Qy     257 GGSTKNWSGNSEFHFYSINVGGFFKLRAGEEISIQVSNPSLLDPDQDATYFGAFKV 312
               || ::|:  |||  || |:|:  : | : |:|  |:| | :|::|||| |
Db     225 SARNSCWSKDAEYGLYSIYQGGIFELKENDRIFVSVTNEHLIDMDHEASFFGAFLV 280


RESULT  15
US-08-883-086-10
; Sequence 10, Application US/08883086
; Patent No. 6171787
;  GENERAL INFORMATION:
;    APPLICANT:  WILEY, STEVEN
;    TITLE OF INVENTION:  MEMBER OF THE TNF FAMILY USEFUL
;    TITLE OF INVENTION:  FOR TREATMENT AND DIAGNOSIS OF DISEASE
;    NUMBER OF SEQUENCES:  13
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Abbott Laboratories
;      STREET:  100 Abbott Park Road
;      CITY:  Abbott Park
;      STATE:  IL
;      COUNTRY:  USA
;      ZIP:  60064-3500
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette
;      COMPUTER:  IBM Compatible
;      OPERATING SYSTEM:  DOS
;      SOFTWARE:  FastSEQ Version 2.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/883,086
;      FILING DATE:
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:
;      FILING DATE:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Porembski, Priscilla E.
;      REGISTRATION NUMBER:  33,207
;      REFERENCE/DOCKET NUMBER:  6134.US.01
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  847-937-0378
;      TELEFAX:  847-938-2623
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  10:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  281 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  No. 6171787e
US-08-883-086-10


  Query Match           15.4%;  Score 258.5;  DB 4;  Length 281;
  Best Local Similarity  26.4%;  Pred. No. 1.4e-17;
  Matches   78;  Conservative   54;  Mismatches  113;  Indels   51;  Gaps   10;

Qy      43 PAASRSMFLALLGLGLGQVVCSIALFLYFRAQMD--PNRISEDSTHCFYRILRLHENAGL 100
           |:  ::  | ::   | | :|    ::||  ::    :: |:    ||     | |:
Db      10 PSLGQTCVLIVIFTVLLQSLCVAVTYVYFTNELKQMQDKYSKSGIACF-----LKEDDSY 64

Qy     101 QDSTLESEDTLPDSCRRMKQAFQGAVQK-------------ELQHIVGPQRFSGAPAMM 146
            |     |:::   | ::|   :  |:|              | |  : |
Db      65 WDP--NDEESMNSPCWQVKWQLRQLVRKMILRTSEETISTVQEKQQNISPL--------- 113

Qy     147 EGSWLDVAQRGKPEAQPFAHLT-----INAASIPSGSHKVTL----SSWYHDR-GWAKIS 196
               | :||       ||:|      |  | |:  ::  |    :||   | | : :|
Db     114 ------VRERGPQRVA--AHITGTRGRSNTLSSPNSKNEKALGRKINSWESSRSGHSFLS 165

Qy     197 NMTLSNGKLRVNQDGFYYLYANICFRHHETSGSVPTDYLQLMVYVVKTSIKIPSSHNLMK 256
           |: | ||:| ::: ||||:|:   ||  |       :  |:: |: | :   |    |||
Db     166 NLHLRNGELVIHEKGFYYIYSQTYFRFQEEIKENTKNDKQMVQYIYKYT-SYPDPILLMK 224

Qy     257 GGSTKNWSGNSEFHFYSINVGGFFKLRAGEEISIQVSNPSLLDPDQDATYFGAFKV 312
               || ::|:  |||  || |:|:  : | : |:|  |:| | :|::|||| |
Db     225 SARNSCWSKDAEYGLYSIYQGGIFELKENDRIFVSVTNEHLIDMDHEASFFGAFLV 280


Search completed: September 30, 2002, 16:06:03
Job time: 22 sec
```